

*Inventu search*

LAMM 09/848,462

=> d his

(FILE 'HOME' ENTERED AT 17:22:20 ON 23 OCT 2001)

FILE 'HCAPLUS' ENTERED AT 17:22:29 ON 23 OCT 2001

L1 68 S MONDET J?/AU  
L2 0 S L1 AND ORGANOSILOXY?  
L3 0 S L1 AND ORGANOSIL?  
L4 13 S L1 AND CARBOX?  
SELECT RN L4 1-4  
DEL SELECT  
SELECT RN L4 1-13

FILE 'REGISTRY' ENTERED AT 17:24:31 ON 23 OCT 2001

L5 200 S E1-200  
L6 22 S E201-222  
L7 222 S L5-6  
SAVE L7 LAM462I/A

FILE 'HCAPLUS' ENTERED AT 17:25:31 ON 23 OCT 2001

L8 13 S L4 AND L7

*13 citations*

=&gt; d ibib abs hitstr 1-13

L8 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:682272 HCAPLUS

DOCUMENT NUMBER: 129:320988

TITLE: Cosmetic or dermatological composition containing organometallic compounds, polymers, and alcohols

INVENTOR(S): Mondet, Jean; Quinn, Francis Xavier; Sanchez, Clement

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9844906	A1	19981015	WO 1998-FR682	19980403
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9870553	A1	19981030	AU 1998-70553	19980403
AU 717355	B2	20000323		
EP 971685	A1	20000119	EP 1998-917304	19980403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9808454	A	20000523	BR 1998-8454	19980403
JP 2000510167	T2	20000808	JP 1998-542451	19980403
PRIORITY APPLN. INFO.:				
			FR 1997-4157	A 19970404
			WO 1998-FR682	W 19980403
AB	A cosmetic or dermatol. compn. designed for forming a film, on a keratin substrate, in cross-linked hybrid material is disclosed. Said compn. is of the sol/gel type and is obtained by mixing: (a) at least an organometallic compd.; (b) at least a functionalized org. polymer or said polymer precursor, or at least a functionalized silicone polymer or said polymer precursor, the latter precursor being different from (a); (c) a sufficient amt. of water for hydrolyzing the organometallic compd.; and (d) optionally at least an alc.; said film being non-reversible. A nail polish contained tetraethoxysilane 53.4, 50% poly(2-ethyl-2-oxazoline) 19.0, ethanol 11.8, and water (pH = 2) 9.2%.			
IT	64-17-5, Ethanol, biological studies 78-10-4 78-62-6 79-10-7D, 2-Propenoic acid, polymers 79-41-4D, polymers 97-65-4D, Itaconic acid, polymers 110-16-7D, Maleic acid, polymers 546-68-9 557-75-5D, Ethenol, polymers 1184-84-5D, Vinylsulfonic acid, polymers 1303-86-2, Boron oxide, biological studies 1314-35-8, Tungsten oxide, biological studies 1332-29-2, Tin oxide 1332-37-2, Iron oxide, biological studies 1344-28-1, Aluminum oxide, biological studies 1746-03-8D , Vinylphosphonic acid, polymers 2031-67-6 3087-36-3, Titanium tetraethoxide 3724-65-0D, 2-Butenoic acid, polymers 5058-42-4, Iron triethoxide 5593-70-4 7631-86-9 , Silicon oxide, biological studies 9003-39-8, Pvp			

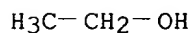
10595-80-9D, 2-Sulfoethyl methacrylate, polymers  
 11129-18-3, Cerium oxide 13463-67-7, Titanium oxide,  
 biological studies 15214-89-8D, polymers 23519-77-9,  
 Tetrapropylzirconate 25322-68-3 25805-17-8,  
 Poly(2-ethyl-2-oxazoline) 26914-43-2D, Styrene sulfonic acid,  
 polymers 31692-79-2, Polydimethylsiloxanediol 84740-99-8  
 214688-70-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(cosmetic or dermatol. compn. contg. organometallic compds. and  
 polymers)

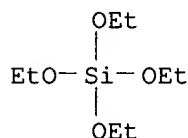
RN 64-17-5 HCAPLUS

CN Ethanol (9CI) (CA INDEX NAME)



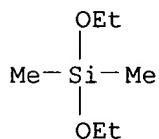
RN 78-10-4 HCAPLUS

CN Silicic acid (H4SiO4), tetraethyl ester (8CI, 9CI) (CA INDEX NAME)



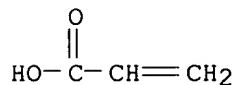
RN 78-62-6 HCAPLUS

CN Silane, diethoxydimethyl- (8CI, 9CI) (CA INDEX NAME)



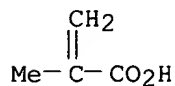
RN 79-10-7 HCAPLUS

CN 2-Propenoic acid (9CI) (CA INDEX NAME)



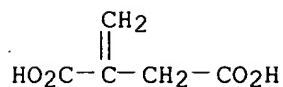
RN 79-41-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)



RN 97-65-4 HCAPLUS

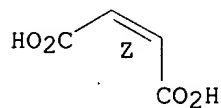
CN Butanedioic acid, methylene- (9CI) (CA INDEX NAME)



RN 110-16-7 HCAPLUS

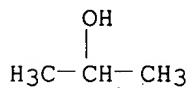
CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 546-68-9 HCAPLUS

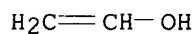
CN 2-Propanol, titanium(4+) salt (9CI) (CA INDEX NAME)



1/4 Ti(IV)

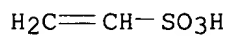
RN 557-75-5 HCAPLUS

CN Ethenol (9CI) (CA INDEX NAME)



RN 1184-84-5 HCAPLUS

CN Ethenesulfonic acid (6CI, 8CI, 9CI) (CA INDEX NAME)



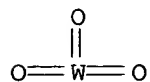
RN 1303-86-2 HCAPLUS

CN Boron oxide (B2O3) (6CI, 8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 1314-35-8 HCAPLUS

CN Tungsten oxide (WO3) (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 1332-29-2 HCAPLUS

CN Tin oxide (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

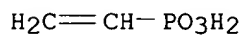
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CN Iron oxide (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

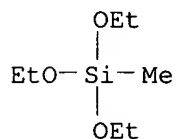
RN 1344-28-1 HCAPLUS  
CN Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

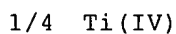
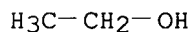
RN 1746-03-8 HCAPLUS  
CN Phosphonic acid, ethenyl- (9CI) (CA INDEX NAME)



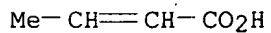
RN 2031-67-6 HCAPLUS  
CN Silane, triethoxymethyl- (8CI, 9CI) (CA INDEX NAME)



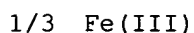
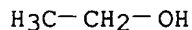
RN 3087-36-3 HCAPLUS  
CN Ethanol, titanium(4+) salt (9CI) (CA INDEX NAME)



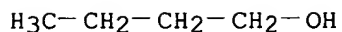
RN 3724-65-0 HCAPLUS  
CN 2-Butenoic acid (9CI) (CA INDEX NAME)



RN 5058-42-4 HCAPLUS  
CN Ethanol, iron(3+) salt (8CI, 9CI) (CA INDEX NAME)

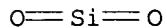


RN 5593-70-4 HCAPLUS  
CN 1-Butanol, titanium(4+) salt (9CI) (CA INDEX NAME)



● 1/4 Ti(IV)

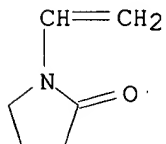
RN 7631-86-9 HCAPLUS  
CN Silica (7CI, 8CI, 9CI) (CA INDEX NAME)



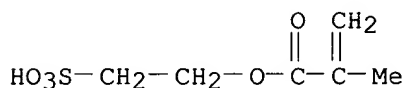
RN 9003-39-8 HCAPLUS  
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0  
CMF C6 H9 N O



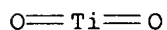
RN 10595-80-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-sulfoethyl ester (9CI) (CA INDEX NAME)



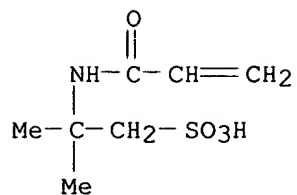
RN 11129-18-3 HCAPLUS  
CN Cerium oxide (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

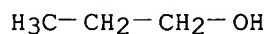
RN 13463-67-7 HCAPLUS  
CN Titanium oxide (TiO<sub>2</sub>) (8CI, 9CI) (CA INDEX NAME)



RN 15214-89-8 HCAPLUS  
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]- (9CI) (CA INDEX NAME)

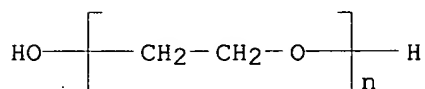


RN 23519-77-9 HCAPLUS  
 CN 1-Propanol, zirconium(4+) salt (9CI) (CA INDEX NAME)



1/4 Zr(IV)

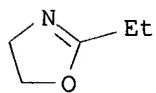
RN 25322-68-3 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



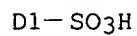
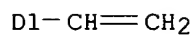
RN 25805-17-8 HCAPLUS  
 CN Oxazole, 2-ethyl-4,5-dihydro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 10431-98-8  
 CMF C5 H9 N O

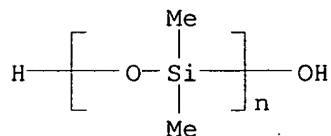


RN 26914-43-2 HCAPLUS  
 CN Benzenesulfonic acid, ethenyl- (9CI) (CA INDEX NAME)



RN 31692-79-2 HCAPLUS

CN Poly[oxy(dimethylsilylene)], .alpha.-hydro-.omega.-hydroxy- (8CI, 9CI)  
(CA INDEX NAME)



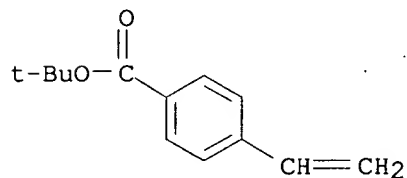
RN 84740-99-8 HCAPLUS

CN Benzoic acid, 4-ethenyl-, 1,1-dimethylethyl ester, polymer with 2-butenic acid and ethenyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 84740-98-7

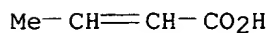
CMF C13 H16 O2



CM 2

CRN 3724-65-0

CMF C4 H6 O2

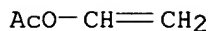


CM 3

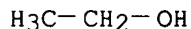
CRN 108-05-4

CMF C4 H6 O2





RN 214688-70-7 HCAPLUS  
 CN Ethanol, tungsten(3+) salt (9CI) (CA INDEX NAME)



1/3 W(III)

L8 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1998:55498 HCAPLUS  
 DOCUMENT NUMBER: 128:132249  
 TITLE: Preparation and use of acrylic copolymers in cosmetics  
 INVENTOR(S): Mondet, Jean; Lion, Bertrand  
 PATENT ASSIGNEE(S): L'Oreal, Fr.; Mondet, Jean; Lion, Bertrand  
 SOURCE: PCT Int. Appl., 29 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9800096	A1	19980108	WO 1997-FR1165	19970630
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2750600	A1	19980109	FR 1996-8220	19960702
FR 2750600	B1	19980911		
EP 847270	A1	19980617	EP 1997-931834	19970630
R: DE, ES, FR, GB, IT				
JP 10511406	T2	19981104	JP 1997-503888	19970630
US 5965116	A	19991012	US 1998-29757	19980417
PRIORITY APPLN. INFO.:			FR 1996-8220	19960702
			WO 1997-FR1165	19970630

AB The use in and for the prepn. of cosmetic and dermatol. compns. of one copolymer obtainable by the copolymn. of a mixt. of monomers comprising: (a) 5 to 25 wt.% of at least one ethylenically unsatd. monomer (A) comprising at least one **carboxylic** acid function; (b) 3 to 30 wt.% of at least one monomer (B)  $\text{H}_2\text{C}=\text{C}(\text{R}_1)-\text{COOR}_2$  ( $\text{R}_1 = \text{H}, \text{Me}$ ;  $\text{R}_2 = \text{linear, branched, cyclic, satd., unsatd., or arom. C}_8\text{-40 alkyl}$ ); (c) of at least one monomer (C) selected from the group constituted by tert-Bu methacrylate, tert-Bu acrylate and their mixts., in a proportion higher than 50 %, such that the polymer glass transition temp. ( $\text{Tg}$ ) is at least 15 C, the wt. percentages being computed with respect to the total amt. of monomer used. An acrylic polymer was prepd. by reaction of a mixt. comprising acrylic acid 15, tert-Bu acrylate 65, and lauryl acrylate 20% in Et acetate. A compn. contg. above acrylic copolymer 2, 2-amino-2-methyl-propan-1-ol q.s. and ethanol q.s. 100 g. was prepd. A hair spray contained above compn. 65, and di-Me ether 35 g.

IT 80883-24-5P 143453-09-2P 143453-10-5P  
 201928-76-9P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and use of acrylic copolymers in cosmetics)

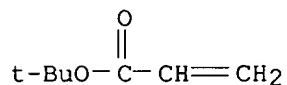
RN 80883-24-5 HCAPLUS

CN 2-Propenoic acid, polymer with 1,1-dimethylethyl 2-propenoate and 2-ethylhexyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 1663-39-4

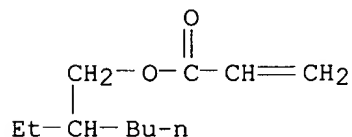
CMF C7 H12 O2



CM . 2

CRN 103-11-7

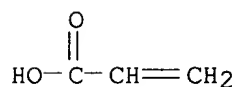
CMF C11 H20 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



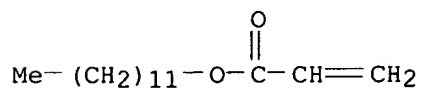
RN 143453-09-2 HCAPLUS

CN 2-Propenoic acid, polymer with 1,1-dimethylethyl 2-propenoate and dodecyl 2-propenoate (9CI) (CA INDEX NAME)

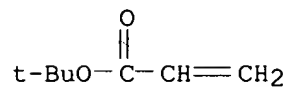
CM 1

CRN 2156-97-0

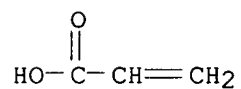
CMF C15 H28 O2



CM 2

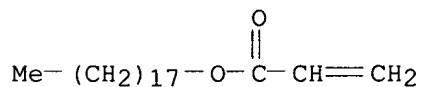
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CM 3

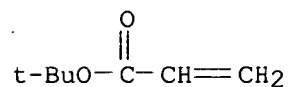
CRN 79-10-7  
CMF C3 H4 O2

RN 143453-10-5 HCAPLUS  
 CN 2-Propenoic acid, polymer with 1,1-dimethylethyl 2-propenoate and  
 octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

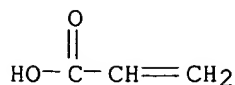
CRN 4813-57-4  
CMF C21 H40 O2

CM 2

CRN 1663-39-4  
CMF C7 H12 O2

CM 3

CRN 79-10-7  
CMF C3 H4 O2



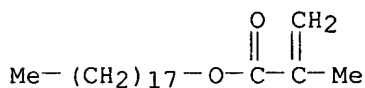
RN 201928-76-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
1,1-dimethylethyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

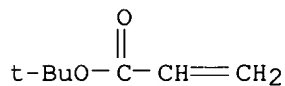
CMF C22 H42 O2



CM 2

CRN 1663-39-4

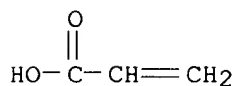
CMF C7 H12 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



L8 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:562984 HCAPLUS

DOCUMENT NUMBER: 127:225088

TITLE: Cosmetic use of natural microfibrils and a  
film-forming polymer as a composite coating agent for  
hair, eyelashes, eyebrows and nails

INVENTOR(S): Mondet, Jean

PATENT ASSIGNEE(S): L'Oreal, Fr.; Mondet, Jean

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

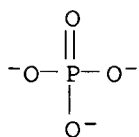
DOCUMENT TYPE: Patent

LANGUAGE: French

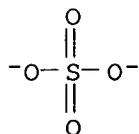
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9729734	A1	19970821	WO 1997-FR165	19970128
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2744632	A1	19970814	FR 1996-1751	19960213
FR 2744632	B1	19980327		
CA 2215512	AA	19970821	CA 1997-2215512	19970128
AU 9715570	A1	19970902	AU 1997-15570	19970128
EP 820267	A1	19980128	EP 1997-901686	19970128
R: DE, ES, FR, GB, IT				
JP 11500455	T2	19990112	JP 1997-529040	19970128
JP 3036849	B2	20000424		
US 6001338	A	19991214	US 1997-930835	19971014
PRIORITY APPLN. INFO.:			FR 1996-1751	A 19960213
			FR 1996-7151	A 19960213
			WO 1997-FR165	W 19970128
AB	The use of an aq. soln. or dispersion of a film-forming polymer and an aq. suspension of natural microfibrils in the form of elongate rigid particles as a composite coating agent for hair, eyelashes, eyebrows and nails in and for the prepn. of a cosmetic or dermatol. compn., is disclosed.			
IT	<b>14265-44-2</b> , Phosphate, biological studies <b>14808-79-8</b> , Sulfate, biological studies			
	RL: BOC (Biological occurrence); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)			
	(cosmetic use of natural microfibrils and a film-forming polymer as a composite coating agent for hair, eyelashes, eyebrows and nails)			
RN	14265-44-2 HCAPLUS			
CN	Phosphate (8CI, 9CI) (CA INDEX NAME)			



RN 14808-79-8 HCAPLUS  
CN Sulfate (7CI, 8CI, 9CI) (CA INDEX NAME)



IT **189166-22-1**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(cosmetic use of natural microfibrils and a film-forming polymer as a composite coating agent for hair, eyelashes, eyebrows and nails)

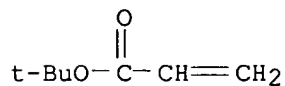
RN 189166-22-1 HCAPLUS

CN 2-Propenoic acid, polymer with 1,1-dimethylethyl 2-propenoate and 2-methylpropyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 1663-39-4

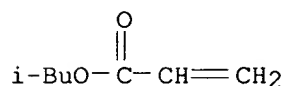
CMF C7 H12 O2



CM 2

CRN 106-63-8

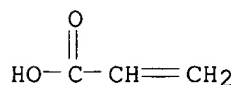
CMF C7 H12 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



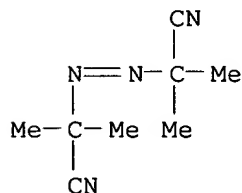
IT 78-67-1, Azobis-isobutyronitrile

RL: CAT (Catalyst use); USES (Uses)

(cosmetic use of natural microfibrils and a film-forming polymer as a composite coating agent for hair, eyelashes, eyebrows and nails)

RN 78-67-1 HCAPLUS

CN Propanenitrile, 2,2'-azobis[2-methyl- (9CI) (CA INDEX NAME)



IT 9004-34-6, Cellulose, biological studies 9012-76-4, Chitosan

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(microfibrils; cosmetic use of natural microfibrils and a film-forming

polymer as a composite coating agent for hair, eyelashes, eyebrows and  
nails)

RN 9004-34-6 HCAPLUS  
CN Cellulose (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9012-76-4 HCAPLUS  
CN Chitosan (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L8 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1996:245939 HCAPLUS

DOCUMENT NUMBER: 124:298451

TITLE: Cosmetic nail compositions containing  
**carboxylic** acid polymers

INVENTOR(S): Ramin, Roland; Mondet, Jean

PATENT ASSIGNEE(S): Oreal Societe Anonyme, Fr.

SOURCE: Fr. Demande, 15 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

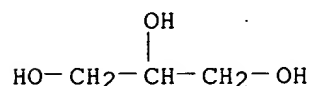
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

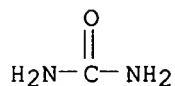
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	FR 2722404	A1	19960119	FR 1994-8731	19940713
	FR 2722404	B1	19961004		
AB	The title nail compn. are claimed for care of nails (Markush structure given). A nail compn. contained AQ 38 75.50, crotonic acid-vinyl acetate-vinyl-tert-butyl-4-benzoate copolymer neutralized 100% by 2-amino-2-methyl-1-propanol 5.0, glycerin 3.0, and D-panthenol 0.5 g.				
IT	50-00-0, Formaldehyde, biological studies 56-81-5, Glycerin, biological studies 57-13-6, Urea, biological studies 546-93-0, Magnesium carbonate 9004-61-9, Hyaluronic acid 9012-76-4, Chitosan 25609-89-6, Crotonic acid-vinyl acetate copolymer 26062-56-6 53200-28-5 54590-72-6, AQ38 58748-38-2 75248-76-9 149698-09-9 156904-65-3 156904-67-5 164982-62-1 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (cosmetic nail compns. contg. <b>carboxylic</b> polymers)				
RN	50-00-0 HCAPLUS				
CN	Formaldehyde (8CI, 9CI) (CA INDEX NAME)				

H<sub>2</sub>C=O

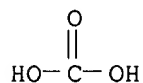
RN 56-81-5 HCAPLUS  
CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)



RN 57-13-6 HCAPLUS  
 CN Urea (8CI, 9CI) (CA INDEX NAME)



RN 546-93-0 HCAPLUS  
 CN Carbonic acid, magnesium salt (1:1) (8CI, 9CI) (CA INDEX NAME)



Mg

RN 9004-61-9 HCAPLUS  
 CN Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

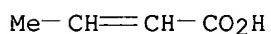
RN 9012-76-4 HCAPLUS  
 CN Chitosan (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 25609-89-6 HCAPLUS  
 CN 2-Butenoic acid, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

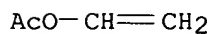
CM 1

CRN 3724-65-0  
 CMF C4 H6 O2



CM 2

CRN 108-05-4  
 CMF C4 H6 O2

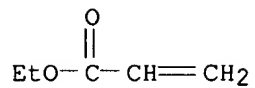


RN 26062-56-6 HCAPLUS  
 CN 2-Propenoic acid, polymer with N-(1,1-dimethylethyl)-2-propenamide and ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

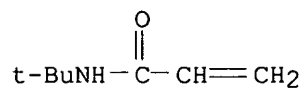
CRN 140-88-5  
 CMF C5 H8 O2





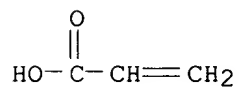
CM 2

CRN 107-58-4  
CMF C7 H13 N O



CM 3

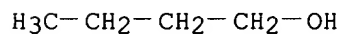
CRN 79-10-7  
CMF C3 H4 O2



RN 53200-28-5 HCAPLUS  
CN 2,5-Furandione, polymer with methoxyethene, butyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 71-36-3  
CMF C4 H10 O



CM 2

CRN 9011-16-9  
CMF (C4 H2 O3 . C3 H6 O)x  
CCI PMS

CM 3

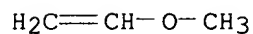
CRN 108-31-6  
CMF C4 H2 O3



CM 4

CRN 107-25-5

CMF C3 H6 O



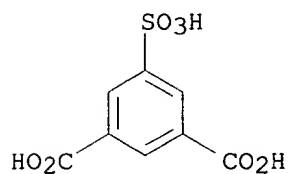
RN 54590-72-6 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, monosodium salt, polymer with  
1,3-benzenedicarboxylic acid, 1,4-cyclohexanedimethanol and  
2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 6362-79-4

CMF C8 H6 O7 S . Na

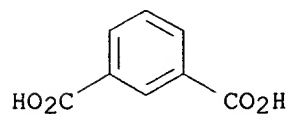


● Na

CM 2

CRN 121-91-5

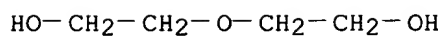
CMF C8 H6 O4



CM 3

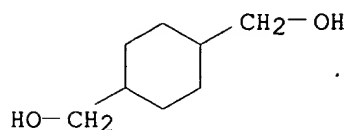
CRN 111-46-6

CMF C4 H4 O4



CM 4

CRN 105-08-8  
CMF C8 H16 O2

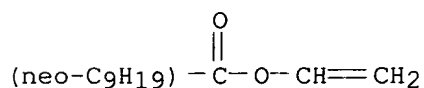


RN 58748-38-2 HCAPLUS

CN Neodecanoic acid, ethenyl ester, polymer with 2-butenic acid and ethenyl acetate (9CI) (CA INDEX NAME)

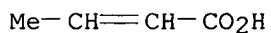
CM 1

CRN 51000-52-3  
CMF C12 H22 O2  
CCI IDS  
CDES 8:ID,NEO



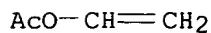
CM 2

CRN 3724-65-0  
CMF C4 H6 O2



CM 3

CRN 108-05-4  
CMF C4 H6 O2

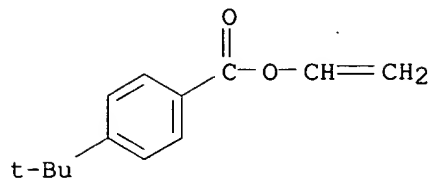


RN 75248-76-9 HCAPLUS

CN 2-Butenoic acid, polymer with ethenyl acetate and ethenyl 4-(1,1-dimethylethyl)benzoate (9CI) (CA INDEX NAME)

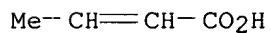
CM 1

CRN 15484-80-7  
CMF C13 H16 O2



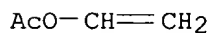
CM 2

CRN 3724-65-0  
CMF C4 H6 O2



CM 3

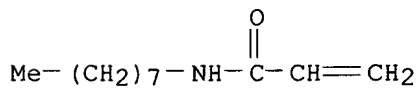
CRN 108-05-4  
CMF C4 H6 O2



RN 149698-09-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, N-octyl-2-propenamide and 2-propenoic acid (9CI)  
(CA INDEX NAME)

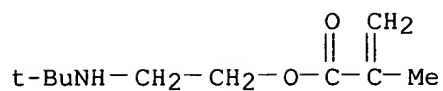
CM 1

CRN 10124-68-2  
CMF C11 H21 N O



CM 2

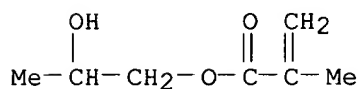
CRN 3775-90-4  
CMF C10 H19 N O2



CM 3

CRN 923-26-2

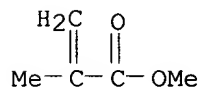
CMF C7 H12 O3



CM 4

CRN 80-62-6

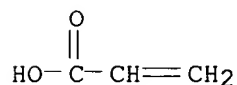
CMF C5 H8 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 156904-65-3 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate and ethenyl neodecanoate (9CI) (CA INDEX  
NAME)

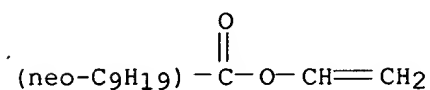
CM 1

CRN 51000-52-3

CMF C12 H22 O2

CCI IDS

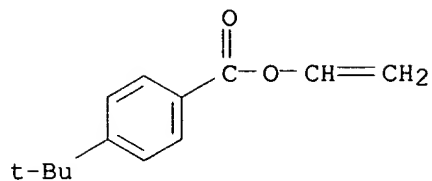
CDES 8:ID,NEO



CM 2

CRN 15484-80-7

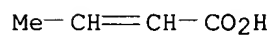
CMF C13 H16 O2



CM 3

CRN 3724-65-0

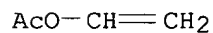
CMF C4 H6 O2



CM 4

CRN 108-05-4

CMF C4 H6 O2



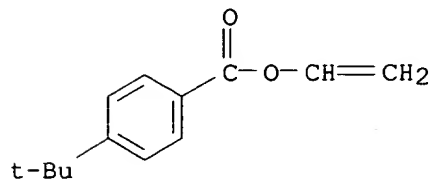
RN 156904-67-5 HCAPLUS.

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate and 2-propenyl octadecanoate (9CI) (CA  
INDEX NAME)

CM 1

CRN 15484-80-7

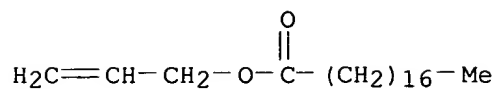
CMF C13 H16 O2



CM 2

CRN 6289-31-2

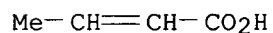
CMF C21 H40 O2



CM 3

CRN 3724-65-0

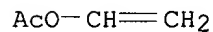
CMF C4 H6 O2



CM 4

CRN 108-05-4

CMF C4 H6 O2



RN 164982-62-1 HCAPLUS

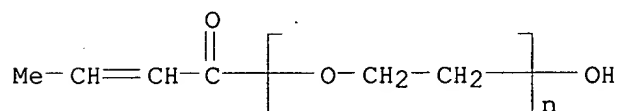
CN Acetic acid ethenyl ester, polymer with .alpha.-(1-oxo-2-butenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 84180-83-6

CMF (C2 H4 O)<sub>n</sub> C4 H6 O2

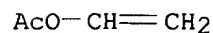
CCI PMS



CM 2

CRN 108-05-4

CMF C4 H6 O2



IT 77-86-1 102-71-6, Triethanolamine, reactions  
 111-42-2, Diethanolamine, reactions 115-69-5,  
 2-Amino-2-methyl-propane-1,3-diol 122-20-3, Triisopropanolamine  
 124-68-5, 2-Amino-2-methyl-propanol 141-43-5,  
 Monoethanolamine, reactions 1310-58-3, Potassium hydroxide,

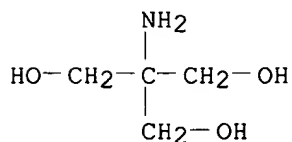
reactions 1310-73-2, Sodium hydroxide, reactions

RL: RCT (Reactant)

(cosmetic nail compns. contg. **carboxylic** polymers)

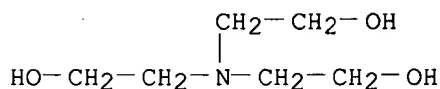
RN 77-86-1 HCAPLUS

CN 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)



RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)



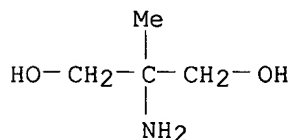
RN 111-42-2 HCAPLUS

CN Ethanol, 2,2'-iminobis- (9CI) (CA INDEX NAME)



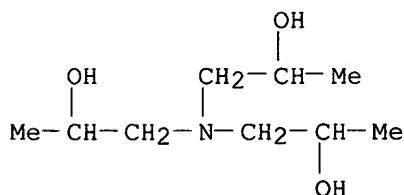
RN 115-69-5 HCAPLUS

CN 1,3-Propanediol, 2-amino-2-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 122-20-3 HCAPLUS

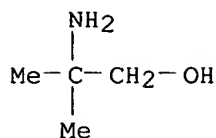
CN 2-Propanol, 1,1',1''-nitrilotris- (9CI) (CA INDEX NAME)



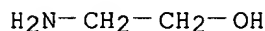
RN 124-68-5 HCAPLUS

CN 1-Propanol, 2-amino-2-methyl- (8CI, 9CI) (CA INDEX NAME)





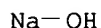
RN 141-43-5 HCAPLUS  
 CN Ethanol, 2-amino- (8CI, 9CI) (CA INDEX NAME)



RN 1310-58-3 HCAPLUS  
 CN Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)

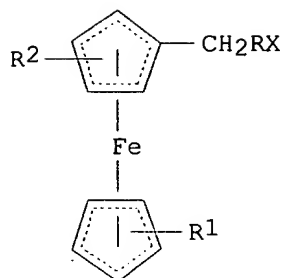


RN 1310-73-2 HCAPLUS  
 CN Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1996:153425 HCAPLUS  
 DOCUMENT NUMBER: 124:202610  
 TITLE: Synthesis of high-purity haloalkylferrocenes by  
 Friedel-Crafts reaction and metal hydride reduction  
 INVENTOR(S): Graindorge, Herve; **Mondet, Jean-Claude**;  
 Vincent, Charles-Henry  
 PATENT ASSIGNEE(S): Societe Nationale des Poudres et Explosifs, Fr.  
 SOURCE: Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 687683	A1	19951220	EP 1995-401304	19950606
EP 687683	B1	20000322		
R: CH, DE, GB, IT, LI, NL, SE				
FR 2721028	A1	19951215	FR 1994-7223	19940614
FR 2721028	B1	19960712		
IL 113555	A1	19980816	IL 1995-113555	19950501
CA 2149195	AA	19951215	CA 1995-2149195	19950511
US 5550267	A	19960827	US 1995-470966	19950606
NO 9502302	A	19951215	NO 1995-2302	19950612
JP 08041090	A2	19960213	JP 1995-144480	19950612
PRIORITY APPLN. INFO.:			FR 1994-7223	19940614
OTHER SOURCE(S):		CASREACT 124:202610; MARPAT 124:202610		
GI				



AB The present invention relates to a method of synthesis of haloalkylferrocenes I ( $R = C1-C47$  alkyl;  $R1, R2 = H, C1-C8$  alkyl;  $X = Cl, Br$ ), comprising in a 1st step the reaction of a **carboxylic** acid halide or anhydride of  $XRCO_2H$  with ferrocene or an alkylferrocene in the presence of  $AlCl_3$  catalyst in an org. solvent medium. After this step, without isolation of the intermediate, one adds a metallic hydride. For example, ferrocene reacts in  $CH_2Cl_2$  at reflux with  $AlCl_3/4$ -chlorobutyryl chloride, after which  $NaBH_4$  in triglyme is added, the product mixt. is hydrolyzed and the desired product sepd. by reduced-pressure distn. to give 78% (4-chlorobutyl)ferrocene with >99% purity. The haloalkylferrocenes are particularly useful as intermediates in the synthesis of combustion catalysts for proporgols.

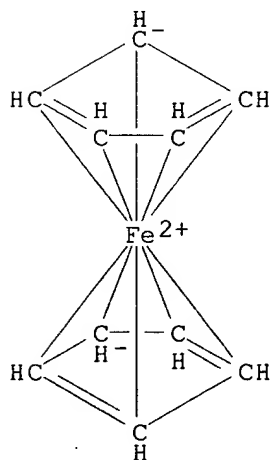
IT 102-54-5, Ferrocene 625-36-5, 3-Chloropropanoyl chloride  
4635-59-0, 4-Chlorobutyryl chloride

RL: RCT (Reactant)

(for prepn. of (haloalkyl)ferrocene)

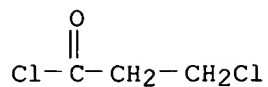
RN 102-54-5 HCAPLUS

CN Ferrocene (8CI, 9CI) (CA INDEX NAME)



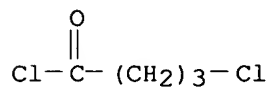
RN 625-36-5 HCAPLUS

CN Propanoyl chloride, 3-chloro- (9CI) (CA INDEX NAME)



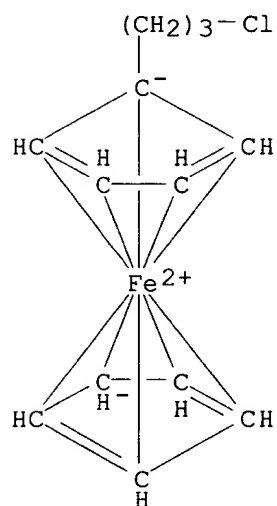
RN 4635-59-0 HCAPLUS

CN Butanoyl chloride, 4-chloro- (9CI) (CA INDEX NAME)

IT 53337-31-8P, (3-Chloropropyl)ferrocene 141719-29-1P,  
(4-Chlorobutyl)ferroceneRL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. in high purity as intermediate for combustion catalysts for  
propergols)

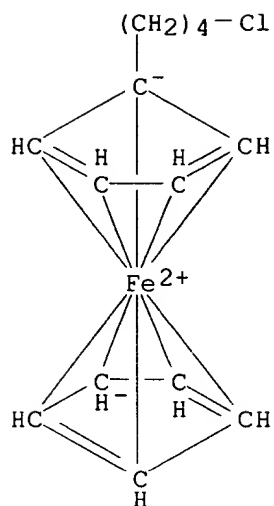
RN 53337-31-8 HCAPLUS

CN Ferrocene, (3-chloropropyl)- (9CI) (CA INDEX NAME)



RN 141719-29-1 HCAPLUS

CN Ferrocene, (4-chlorobutyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:517318 HCAPLUS

DOCUMENT NUMBER: 121:117318

TITLE: Hair-setting composition containing film-forming polymer having **carboxylic** acid functions neutralized and plasticizersINVENTOR(S): **Mondet, Jean**; Sturla, Jean Michel; Lion, Bertrand; Dupuis, Christine; Cazeneuve, Colette

PATENT ASSIGNEE(S): Oreal S. A., Fr.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9409749	A1	19940511	WO 1993-FR1063	19931028
W: AU, BR, CA, JP, KR, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2697160	A1	19940429	FR 1992-12872	19921028
FR 2697160	B1	19941125		
CA 2117355	AA	19940511	CA 1993-2117355	19931028
AU 9454240	A1	19940524	AU 1994-54240	19931028
AU 667246	B2	19960314		
ZA 9308060	A	19940607	ZA 1993-8060	19931028
EP 618793	A1	19941012	EP 1993-924650	19931028
EP 618793	B1	19970502		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
JP 07502761	T2	19950323	JP 1993-510777	19931028
BR 9305699	A	19961231	BR 1993-5699	19931028
AT 152344	E	19970515	AT 1993-924650	19931028
ES 2101357	T3	19970701	ES 1993-924650	19931028
US 5660820	A	19970826	US 1995-483266	19950607
US 5709850	A	19980120	US 1996-654761	19960529
PRIORITY APPLN. INFO.:			FR 1992-12872	19921028
			WO 1993-FR1063	19931028

US 1994-256019

19940829

AB An aq. cosmetic hair-setting compn. consisting of an aq. dispersion of:  
 (a) particles of a film-forming polymer having **carboxylic** acid  
 functions neutralized at a rate of 10-80% by a non-volatile monobasic  
 agent, said particles having an av. diam. of 10-300 nm; and (b) at least  
 one plasticizer. The compn. is preferably an aerosol spray, a setting  
 lotion or a styling foam. The polymer compn. contained vinyl  
 acetate-crotonic acid-vinyl 4-tert-butyl-benzoate copolymer 40,  
 triisopropanolamine 5.32, diisopropyl adipate 8 and acetone 106.2 g. A  
 hair aerosol contained above polymer compn. 36, di-Me ether 48, perfumes  
 0.05, and water q.s. 100g.

IT 75248-76-9 98715-32-3 156904-65-3  
 156904-66-4 156904-67-5 156904-68-6  
 156904-69-7 156904-70-0 156943-94-1

RL: BIOL (Biological study)

(Hair wave-setting preps. contg. plasticizers and)

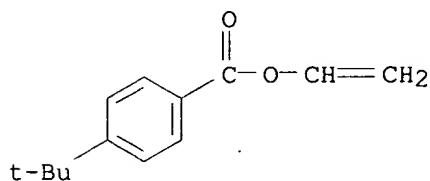
RN 75248-76-9 HCAPLUS

CN 2-Butenoic acid, polymer with ethenyl acetate and ethenyl  
 4-(1,1-dimethylethyl)benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 15484-80-7

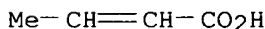
CMF C13 H16 O2



CM 2

CRN 3724-65-0

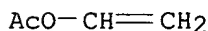
CMF C4 H6 O2



CM 3

CRN 108-05-4

CMF C4 H6 O2

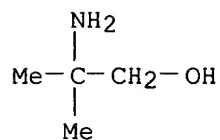


RN 98715-32-3 HCAPLUS

CN 2-Butenedioic acid (2Z)-, polymer with methoxyethene, butyl ester, compd.  
 with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

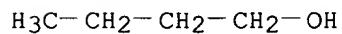


CM 2

CRN 54578-91-5  
CMF C4 H10 O . x (C4 H4 O4 . C3 H6 O)x  
CDES 8:GD,ESTER

CM 3

CRN 71-36-3  
CMF C4 H10 O



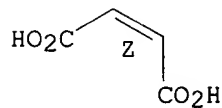
CM 4

CRN 25153-40-6  
CMF (C4 H4 O4 . C3 H6 O)x  
CCI PMS

CM 5

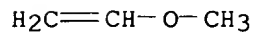
CRN 110-16-7  
CMF C4 H4 O4  
CDES 2:Z

Double bond geometry as shown.



CM 6

CRN 107-25-5  
CMF C3 H6 O



RN 156904-65-3 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate and ethenyl neodecanoate (9CI) (CA INDEX  
NAME)

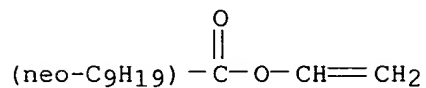
CM 1

CRN 51000-52-3

CMF C12 H22 O2

CCI IDS

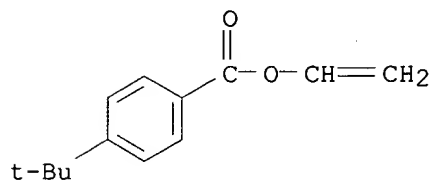
CDES 8:ID,NEO



CM 2

CRN 15484-80-7

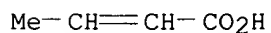
CMF C13 H16 O2



CM 3

CRN 3724-65-0

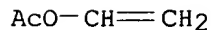
CMF C4 H6 O2



CM 4

CRN 108-05-4

CMF C4 H6 O2



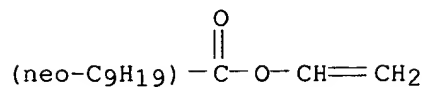
RN 156904-66-4 HCAPLUS

CN Benzoic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate  
and ethenyl neodecanoate (9CI) (CA INDEX NAME)

CM 1

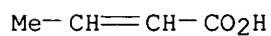
CRN 51000-52-3

CMF C12 H22 O2  
 CCI IDS  
 CDES 8:ID,NEO



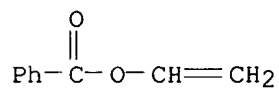
CM 2

CRN 3724-65-0  
 CMF C4 H6 O2



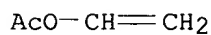
CM 3

CRN 769-78-8  
 CMF C9 H8 O2



CM 4

CRN 108-05-4  
 CMF C4 H6 O2



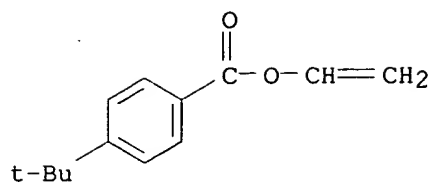
RN 156904-67-5 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
 2-butenic acid, ethenyl acetate and 2-propenyl octadecanoate (9CI) (CA  
 INDEX NAME)

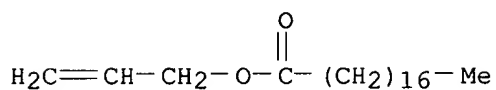
CM 1

CRN 15484-80-7  
 CMF C13 H16 O2

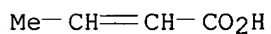




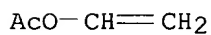
CM 2

CRN 6289-31-2  
CMF C21 H40 O2

CM 3

CRN 3724-65-0  
CMF C4 H6 O2

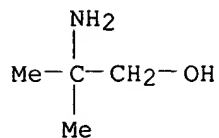
CM 4

CRN 108-05-4  
CMF C4 H6 O2

RN 156904-68-6 HCAPLUS

CN 2-Butenoic acid, polymer with ethenyl acetate and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

CM 2

CRN 68134-63-4

CMF (C4 H6 O2 . C4 H6 O2 . (C2 H4 O)n H2 O)x

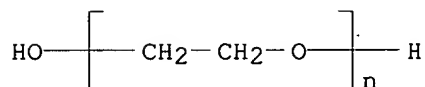
CCI PMS

CM 3

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

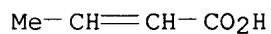
CCI PMS



CM 4

CRN 3724-65-0

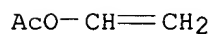
CMF C4 H6 O2



CM 5

CRN 108-05-4

CMF C4 H6 O2



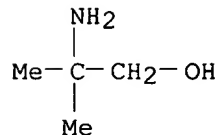
RN 156904-69-7 HCAPLUS

CN 2-Butenoic acid, polymer with ethenyl acetate, compd. with  
2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



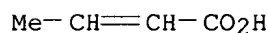
CM 2

CRN 25609-89-6

CMF (C4 H6 O2 . C4 H6 O2)x  
CCI PMS

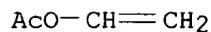
CM 3

CRN 3724-65-0  
CMF C4 H6 O2



CM 4

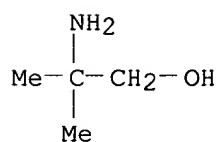
CRN 108-05-4  
CMF C4 H6 O2



RN 156904-70-0 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2-propenoic acid and N-(1,1,3,3-tetramethylbutyl)-2-propenamide, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

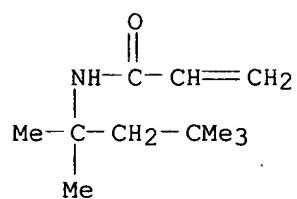


CM 2

CRN 67016-70-0  
CMF (C11 H21 N O . C10 H19 N O2 . C7 H12 O3 . C5 H8 O2 . C3 H4 O2)x  
CCI PMS

CM 3

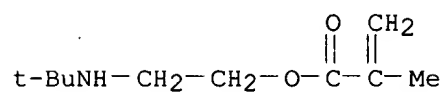
CRN 4223-03-4  
CMF C11 H21 N O



CM 4

CRN 3775-90-4

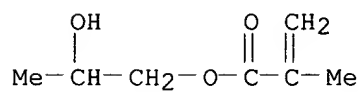
CMF C10 H19 N O2



CM 5

CRN 923-26-2

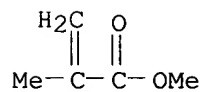
CMF C7 H12 O3



CM 6

CRN 80-62-6

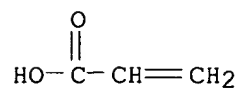
CMF C5 H8 O2



CM 7

CRN 79-10-7

CMF C3 H4 O2



RN 156943-94-1 HCAPLUS

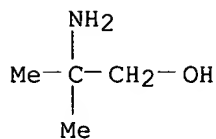
CN Neodecanoic acid, ethenyl ester, polymer with 2-butenic acid and ethenyl

acetate, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 58748-38-2

CMF (C12 H22 O2 . C4 H6 O2 . C4 H6 O2)x

CCI PMS

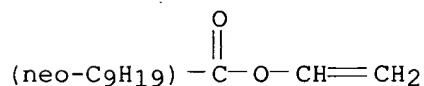
CM 3

CRN 51000-52-3

CMF C12 H22 O2

CCI IDS

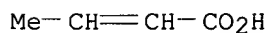
CDES 8:ID,NEO



CM 4

CRN 3724-65-0

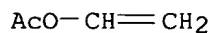
CMF C4 H6 O2



CM 5

CRN 108-05-4

CMF C4 H6 O2

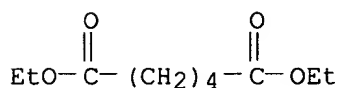


IT 141-28-6, DiEthyl adipate 6938-94-9, Diisopropyl adipate  
 25498-49-1, Tripropylene glycol Monomethyl ether

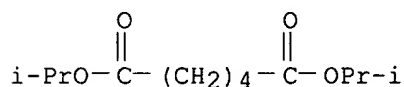
RL: BIOL (Biological study)

(as plasticizer, Hair wave-setting prepns. contg. film-forming polymers  
 and)

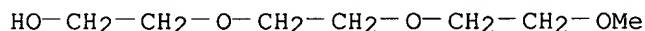
RN 141-28-6 HCAPLUS  
 CN Hexanedioic acid, diethyl ester (9CI) (CA INDEX NAME)



RN 6938-94-9 HCAPLUS  
 CN Hexanedioic acid, bis(1-methylethyl) ester (9CI) (CA INDEX NAME)

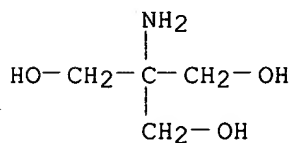


RN 25498-49-1 HCAPLUS  
 CN Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (9CI) (CA INDEX NAME)

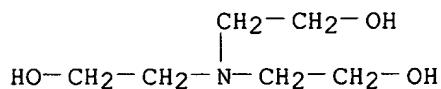


3 ( D1-Me )

IT 77-86-1, 2-Amino-2-hydroxymethyl-1,3-propanediol 102-71-6  
 , reactions 111-42-2, Diethanolamine, reactions 115-69-5  
 , 2-Amino-2-methyl-1,3-propanediol 122-20-3, Triisopropanolamine  
 124-68-5, 2-Amino-2-methyl-propanol 141-43-5, reactions  
 1310-58-3, Potassium hydroxide, reactions 1310-73-2,  
 Sodium hydroxide, reactions  
 RL: BIOL (Biological study)  
 (in neutralization of film-forming polymers, for hair wave-setting  
 prepns.)  
 RN 77-86-1 HCAPLUS  
 CN 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)



RN 102-71-6 HCAPLUS  
 CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)

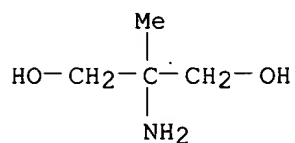


RN 111-42-2 HCAPLUS  
 CN Ethanol, 2,2'-iminobis- (9CI) (CA INDEX NAME)



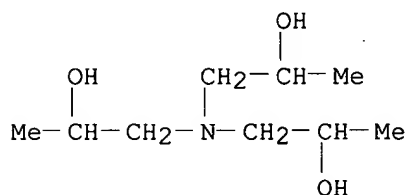
RN 115-69-5 HCAPLUS

CN 1,3-Propanediol, 2-amino-2-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



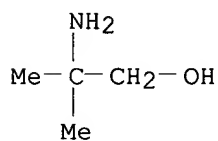
RN 122-20-3 HCAPLUS

CN 2-Propanol, 1,1',1''-nitrilotris- (9CI) (CA INDEX NAME)



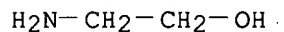
RN 124-68-5 HCAPLUS

CN 1-Propanol, 2-amino-2-methyl- (8CI, 9CI) (CA INDEX NAME)



RN 141-43-5 HCAPLUS

CN Ethanol, 2-amino- (8CI, 9CI) (CA INDEX NAME)



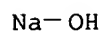
RN 1310-58-3 HCAPLUS

CN Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)



RN 1310-73-2 HCAPLUS

CN Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1994:307083 HCAPLUS  
 DOCUMENT NUMBER: 120:307083  
 TITLE: Melanotic hydrosoluble polymer colorant of indole compounds, its preparation, and coloring cosmetic compositions containing it  
 INVENTOR(S): Mondet, Jean; Langla, Bernard; Andrean, Herve; Lagrange, Alain  
 PATENT ASSIGNEE(S): Oreal S. A., Fr.  
 SOURCE: Fr. Demande, 32 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2695033	A1	19940304	FR 1992-10264	19920825
FR 2695033	B1	19941125		

OTHER SOURCE(S): MARPAT 120:307083

AB The title polymer colorant is obtained by oxidizing an indole or indolinic compd. in an aq. milieu in the presence of a hydrosol. anionic, cationic, amphoteric, or nonionic polymer and sepn. of the resulting colorant polymer by filtration and pptn. or by filtration and lyophilization. The polymer is useful in cosmetic makeup or in coloring hair or skin. Sol. poly-.beta.-alanine was prepd. and used with H2O2 in the prepn. of a black hydrosol. polymer of 5,6-dihydroxyindole. A mascara gel and a hair coloring lotion were prepd. which contained the polymer colorant.

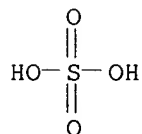
IT 7758-98-7, Copper sulfate, uses 8061-51-6, Sodium lignosulfonate 9004-62-0, Cellosize WPO.9H 9004-64-2, Klucel J

RL: BIOL (Biological study)

(in prepn. of melanotic hydrosol. polymer colorants from dihydroxyindole, for hair coloring or cosmetics)

RN 7758-98-7 HCAPLUS

CN Sulfuric acid copper(2+) salt (1:1) (8CI, 9CI) (CA INDEX NAME)



Cu(II)

RN 8061-51-6 HCAPLUS

CN Lignosulfonic acid, sodium salt (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-62-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1



CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 107-21-1  
 CMF C2 H6 O2

HO-CH<sub>2</sub>-CH<sub>2</sub>-OH

RN 9004-64-2 HCAPLUS  
 CN Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 57-55-6  
 CMF C3 H8 O2

OH  
 |  
 H<sub>3</sub>C-CH-CH<sub>2</sub>-OH

IT 7553-56-2D, Iodine, compds. 7664-41-7, Ammonia, uses  
 7722-84-1, Hydrogen peroxide, uses 9003-01-4,  
 Polyacrylic acid 9003-05-8, Polyacrylamide 9003-39-8,  
 Polyvinylpyrrolidone 9004-32-4, Sodium  
**carboxymethylcellulose** 9004-54-0, Dextran, uses  
 9005-25-8, Starch, uses 12027-06-4, Ammonium iodide  
 24937-14-2, Poly-.beta.-alanine 25513-34-2,  
 Poly-.beta.-alanine 26062-79-3, Polydiallyl dimethylammonium  
 chloride 86348-08-5 147398-77-4  
 RL: BIOL (Biological study)  
 (in prepn. of melanotic hydrosol. polymer colorants from indole or  
 indolinic compds., for hair coloring or cosmetics)  
 RN 7553-56-2 HCAPLUS  
 CN Iodine (8CI, 9CI) (CA INDEX NAME)

I-I

RN 7664-41-7 HCAPLUS  
 CN Ammonia (8CI, 9CI) (CA INDEX NAME)

NH<sub>3</sub>

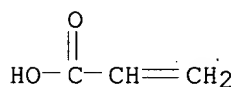
RN 7722-84-1 HCAPLUS  
CN Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) (9CI) (CA INDEX NAME)

HO-OH

RN 9003-01-4 HCAPLUS  
CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1

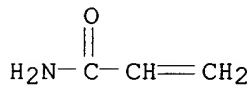
CRN 79-10-7  
CMF C3 H4 O2



RN 9003-05-8 HCAPLUS  
CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

CM 1

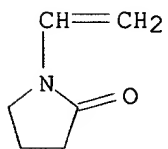
CRN 79-06-1  
CMF C3 H5 N O



RN 9003-39-8 HCAPLUS  
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0  
CMF C6 H9 N O



RN 9004-32-4 HCAPLUS  
CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

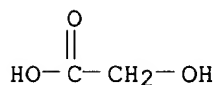
CM 1

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 79-14-1  
 CMF C2 H4 O3



RN 9004-54-0 HCAPLUS  
 CN Dextran (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

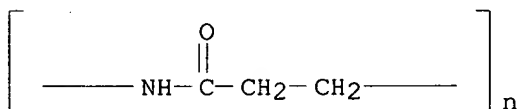
RN 9005-25-8 HCAPLUS  
 CN Starch (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 12027-06-4 HCAPLUS  
 CN Ammonium iodide ((NH4)I) (9CI) (CA INDEX NAME)

I-NH<sub>4</sub>

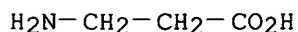
RN 24937-14-2 HCAPLUS  
 CN Poly[imino(1-oxo-1,3-propanediyl)] (9CI) (CA INDEX NAME)



RN 25513-34-2 HCAPLUS  
 CN .beta.-Alanine, homopolymer (9CI) (CA INDEX NAME)

CM 1

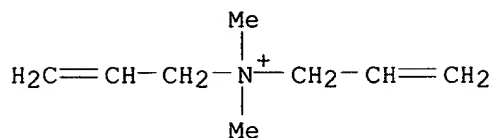
CRN 107-95-9  
 CMF C3 H7 N O2



RN 26062-79-3 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8  
CMF C8 H16 N . Cl

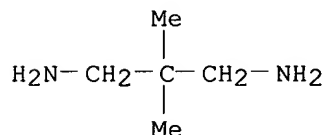


● Cl<sup>-</sup>

RN 86348-08-5 HCAPLUS  
CN 2-Propenamide, N,N'-methylenebis-, polymer with 2,2-dimethyl-1,3-propanediamine (9CI) (CA INDEX NAME)

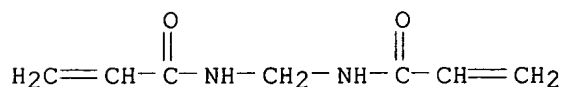
CM 1

CRN 7328-91-8  
CMF C5 H14 N2



CM 2

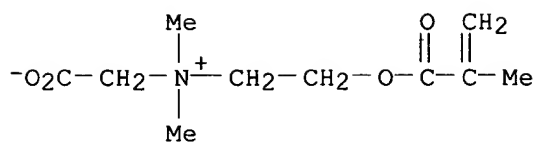
CRN 110-26-9  
CMF C7 H10 N2 O2



RN 147398-77-4 HCAPLUS  
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

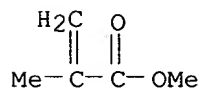
CM 1

CRN 62723-61-9  
CMF C10 H17 N O4

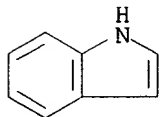


CM 2

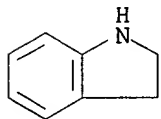
CRN 80-62-6  
CMF C5 H8 O2



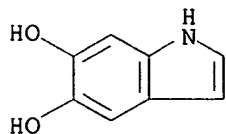
IT 120-72-9D, Indole, compds. 496-15-1D, Indoline, compds.  
3131-52-0, 5,6-Dihydroxyindole 4813-45-0,  
3-Methyl5,6-dihydroxyindole 138937-28-7, 5,6-Dihydroxyindoline  
hydrobromide  
RL: BIOL (Biological study)  
(melanotic hydrosol. polymer colorants prepn. from, for hair coloring  
or cosmetics)  
RN 120-72-9 HCAPLUS  
CN 1H-Indole (9CI) (CA INDEX NAME)



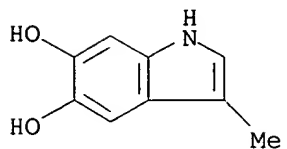
RN 496-15-1 HCAPLUS  
CN 1H-Indole, 2,3-dihydro- (9CI) (CA INDEX NAME)



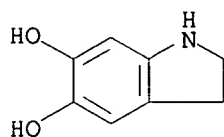
RN 3131-52-0 HCAPLUS  
CN 1H-Indole-5,6-diol (9CI) (CA INDEX NAME)



RN 4813-45-0 HCAPLUS  
 CN 1H-Indole-5,6-diol, 3-methyl- (9CI) (CA INDEX NAME)



RN 138937-28-7 HCAPLUS  
 CN 1H-Indole-5,6-diol, 2,3-dihydro-, hydrobromide (9CI) (CA INDEX NAME)



● HBr

L8 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1993:197806 HCAPLUS  
 DOCUMENT NUMBER: 118:197806  
 TITLE: Oily cosmetic composition containing, as a thickener,  
 an association of two hydrophilic-lipophilic  
 copolymers.  
 INVENTOR(S): **Mondet, Jean**; Lion, Bertrand; Candau,  
 Didier; Simon, Pascal  
 PATENT ASSIGNEE(S): Oreal S. A., Fr.  
 SOURCE: PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9301797	A1	19930204	WO 1992-FR734	19920724
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
FR 2679444	A1	19930129	FR 1991-9438	19910725
FR 2679444	B1	19950407		
EP 550745	A1	19930714	EP 1992-917233	19920724
EP 550745	B1	19950920		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
JP 06501957	T2	19940303	JP 1993-502655	19920724
AT 128026	E	19951015	AT 1992-917233	19920724
ES 2078750	T3	19951216	ES 1992-917233	19920724
US 5519063	A	19960521	US 1993-30197	19930510
PRIORITY APPLN. INFO.:			FR 1991-9438	19910725
			WO 1992-FR734	19920724

AB A cosmetic compn. comprises as oil thickener a 1st copolymer derived from

.gtoreq.1 lipophilic monomer and .gtoreq.1 hydrophilic monomer which contains .gtoreq.1 **carboxylic** acid or sulfonic groups; and 2nd copolymer derived from .gtoreq.1 lipophilic monomer and .gtoreq.1 hydrophilic monomer which contains .gtoreq.1 amide, amine, alc. or ether groups. The 1st and 2nd copolymer have a mol. wt. of .ltoreq.100,000. A sunscreen compn. contained lauryl acrylate-methacrylic acid copolymer 1.25, dimethylaminoethyl methacrylate-stearyl methacrylate copolymer 1.25, 3',5'-ditertiobutyl-4'-hydroxy-3 benzylidenecamphor 1.5, and Finsolv TN q.s. 100g.

IT 26316-49-4P 27401-06-5P, Methacrylic acid-stearyl methacrylate copolymer 27756-15-6P 30325-22-5P  
54243-92-4P 65291-67-0P 82682-24-4P  
88483-25-4P 100339-20-6P 147073-32-3P  
147073-33-4P 147073-34-5P 147073-35-6P  
147073-36-7P 147073-37-8P

RL: PREP (Preparation)

(prepn. of, as thickener for cosmetics)

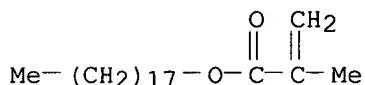
RN 26316-49-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

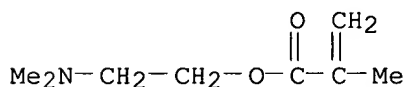
CMF C22 H42 O2



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



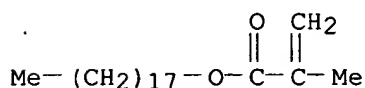
RN 27401-06-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

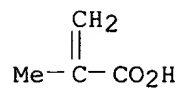
CM 1

CRN 32360-05-7

CMF C22 H42 O2

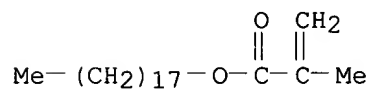


CM 2

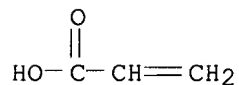
CRN 79-41-4  
CMF C4 H6 O2

RN 27756-15-6 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

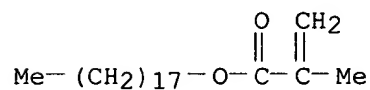
CRN 32360-05-7  
CMF C22 H42 O2

CM 2

CRN 79-10-7  
CMF C3 H4 O2

RN 30325-22-5 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

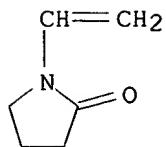
CM 1

CRN 32360-05-7  
CMF C22 H42 O2

CM 2

CRN 88-12-0  
CMF C6 H9 N O

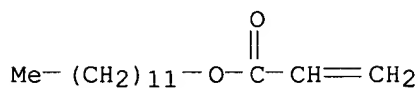




RN 54243-92-4 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl 2-propenoate (9CI) (CA INDEX NAME)

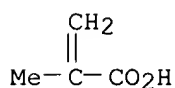
CM 1

CRN 2156-97-0  
 CMF C15 H28 O2



CM 2

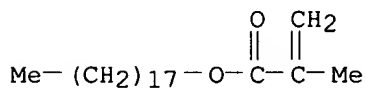
CRN 79-41-4  
 CMF C4 H6 O2



RN 65291-67-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2-propenamide (9CI) (CA INDEX NAME)

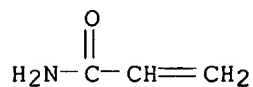
CM 1

CRN 32360-05-7  
 CMF C22 H42 O2



CM 2

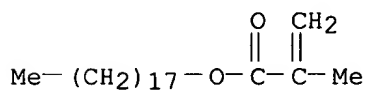
CRN 79-06-1  
 CMF C3 H5 N O



RN 82682-24-4 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
 2-(diethylamino)ethyl 2-propenoate (9CI) (CA INDEX NAME)

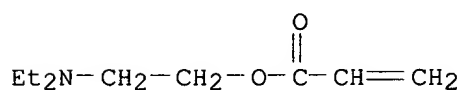
CM 1

CRN 32360-05-7  
 CMF C22 H42 O2



CM 2

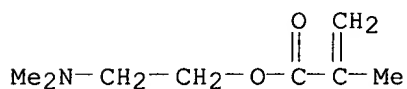
CRN 2426-54-2  
 CMF C9 H17 N O2



RN 88483-25-4 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 2-ethylhexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

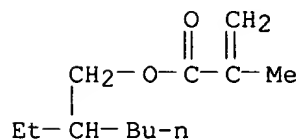
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 2

CRN 688-84-6  
 CMF C12 H22 O2

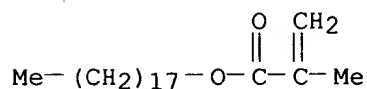


RN 100339-20-6 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
 dihydro-3-methylene-2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

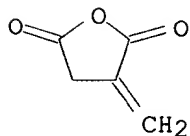
CMF C22 H42 O2



CM 2

CRN 2170-03-8

CMF C5 H4 O3



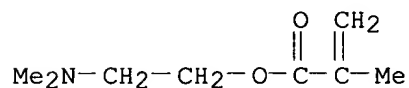
RN 147073-32-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with N-dodecyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

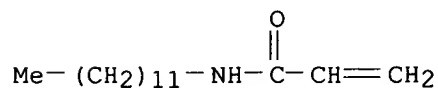
CMF C8 H15 N O2



CM 2

CRN 1506-53-2

CMF C15 H29 N O



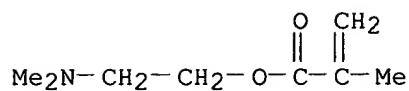
RN 147073-33-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with N-(1,1-dimethylethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

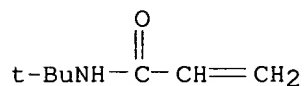
CMF C8 H15 N O2



CM 2

CRN 107-58-4

CMF C7 H13 N O



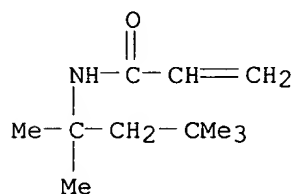
RN 147073-34-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with N-(1,1,3,3-tetramethylbutyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 4223-03-4

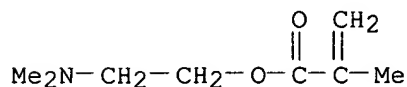
CMF C11 H21 N O



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



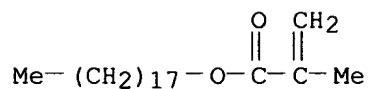
RN 147073-35-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

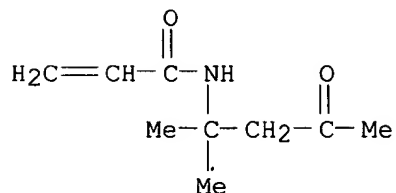
CMF C22 H42 O2



CM 2

CRN 2873-97-4

CMF C9 H15 N O2



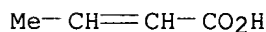
RN 147073-36-7 HCAPLUS

CN Octadecanoic acid, ethenyl ester, polymer with 2-butenic acid (9CI) (CA INDEX NAME)

CM 1

CRN 3724-65-0

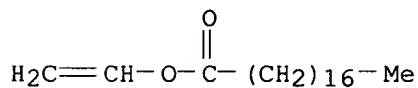
CMF C4 H6 O2



CM 2

CRN 111-63-7

CMF C20 H38 O2



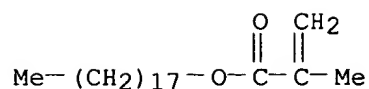
RN 147073-37-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl 2-propenoate and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

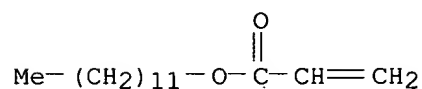
CRN 32360-05-7

CMF C22 H42 O2



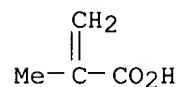
CM 2

CRN 2156-97-0  
CMF C15 H28 O2



CM 3

CRN 79-41-4  
CMF C4 H6 O2



L8 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1993:39609 HCAPLUS

DOCUMENT NUMBER: 118:39609

TITLE: Copolymers based on N-alkylacrylamides, their  
preparation, and their use as thickeners in shampoo  
compositions

INVENTOR(S): **Mondet, Jean**; Lion, Bertrand

PATENT ASSIGNEE(S): Oreal S. A., Fr.

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

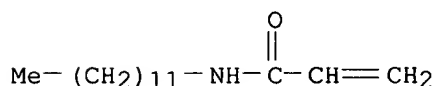
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 494022	A1	19920708	EP 1991-403559	19911227
EP 494022	B1	19971008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
FR 2671088	A1	19920703	FR 1990-16307	19901227
FR 2671088	B1	19940415		
CA 2058543	AA	19920628	CA 1991-2058543	19911224
JP 05093018	A2	19930416	JP 1991-344493	19911226
AT 159036	E	19971015	AT 1991-403559	19911227
ES 2109261	T3	19980116	ES 1991-403559	19911227
US 5324765	A	19940628	US 1993-56774	19930504
PRIORITY APPLN. INFO.:			FR 1990-16307	19901227
			US 1991-813388	19911227

AB Polymers for the title use are prepd. by polymn. of mixts. contg. .gtoreq.30% unsatd. **carboxylic** acid(s), .gtoreq.30% N-C8-30-alkylacrylamide(s), and 0-40% unsatd. hydrophilic monomers, with the polymers being neutralizable to salts. An aq. soln. of acrylamide-acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt contg. ethoxylated sodium lauryl sulfate and NaCl had viscosity 3.00 Pa-s and good gel texture.

IT **1506-53-2P**, N-Dodecylacrylamide **10124-68-2P**, N-Octylacrylamide  
 RL: RCT (Reactant); PREP (Preparation)  
 (prepn. and polymn. of)

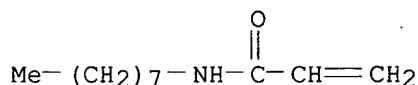
RN 1506-53-2 HCAPLUS

CN 2-Propenamide, N-dodecyl- (9CI) (CA INDEX NAME)



RN 10124-68-2 HCAPLUS

CN 2-Propenamide, N-octyl- (9CI) (CA INDEX NAME)



IT **145289-04-9P**, Acrylamide-acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt **145289-05-0P**, Acrylamide-acrylic acid-N-octylacrylamide copolymer 2-amino-2-methylpropanol salt **145289-06-1P**, Acrylamide-acrylic acid-N-dodecylacrylamide-methacrylic acid copolymer 2-amino-2-methylpropanol salt **145289-07-2P**, Acrylic acid-N-dodecylacrylamide copolymer 2-amino-2-methylpropanol salt  
 RL: PREP (Preparation)  
 (prepn. of, as thickening agents for shampoos)

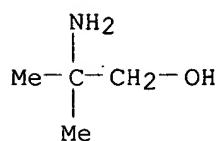
RN 145289-04-9 HCAPLUS

CN 2-Propenoic acid, polymer with N-dodecyl-2-propenamide and 2-propenamide, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 145289-01-6

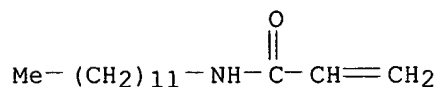
CMF (C15 H29 N O . C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 3

CRN 1506-53-2

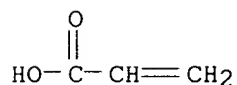
CMF C15 H29 N O



CM 4

CRN 79-10-7

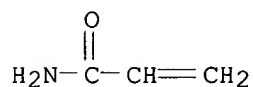
CMF C3 H4 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



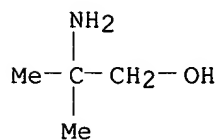
RN 145289-05-0 HCAPLUS

CN 2-Propenoic acid, polymer with N-octyl-2-propenamide and 2-propenamide,  
compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

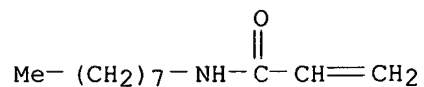
CRN 145289-02-7

CMF (C11 H21 N O . C3 H5 N O . C3 H4 O2)x

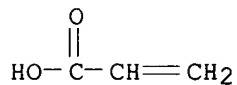
CCI PMS



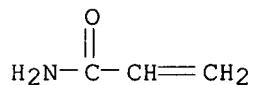
CM 3

CRN 10124-68-2  
CMF C11 H21 N O

CM 4

CRN 79-10-7  
CMF C3 H4 O2

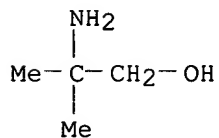
CM 5

CRN 79-06-1  
CMF C3 H5 N O

RN 145289-06-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with N-dodecyl-2-propenamide, 2-propenamide and 2-propenoic acid, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

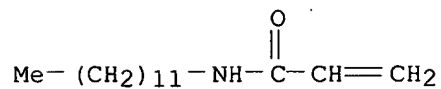
CM 1

CRN 124-68-5  
CMF C4 H11 N O

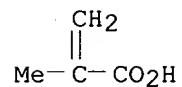
CM 2

CRN 145289-03-8  
CMF (C15 H29 N O . C4 H6 O2 . C3 H5 N O . C3 H4 O2)x  
CCI PMS

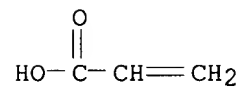
CM 3

CRN 1506-53-2  
CMF C15 H29 N O

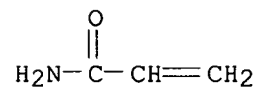
CM 4

CRN 79-41-4  
CMF C4 H6 O2

CM 5

CRN 79-10-7  
CMF C3 H4 O2

CM 6

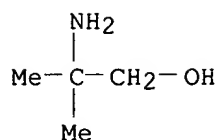
CRN 79-06-1  
CMF C3 H5 N O

RN 145289-07-2 HCAPLUS

CN 2-Propenoic acid, polymer with N-dodecyl-2-propenamide, compd. with  
2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

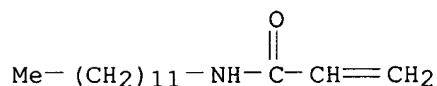


CM 2

CRN 127864-80-6  
 CMF (C15 H29 N O . C3 H4 O2)x  
 CCI PMS

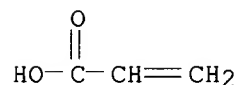
CM 3

CRN 1506-53-2  
 CMF C15 H29 N O



CM 4

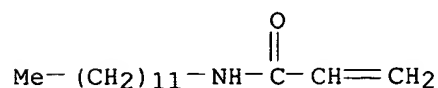
CRN 79-10-7  
 CMF C3 H4 O2



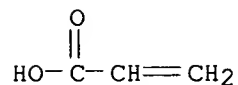
IT 127864-80-6P, Acrylic acid-N-dodecylacrylamide copolymer  
 145289-01-6P, Acrylamide-acrylic acid-N-dodecylacrylamide  
 copolymer 145289-02-7P, Acrylamide-acrylic acid-N-  
 octylacrylamide copolymer 145289-03-8P, Acrylamide-acrylic  
 acid-N-dodecylacrylamide-methacrylic acid copolymer  
 RL: PREP (Preparation)  
 (prepn. of, for thickening agents for shampoos)  
 RN 127864-80-6 HCAPLUS  
 CN 2-Propenoic acid, polymer with N-dodecyl-2-propenamide (9CI) (CA INDEX  
 NAME)

CM 1

CRN 1506-53-2  
 CMF C15 H29 N O

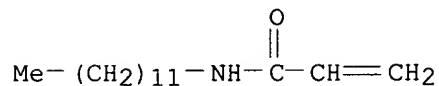


CM 2

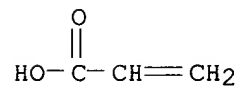
CRN 79-10-7  
CMF C3 H4 O2

RN 145289-01-6 HCAPLUS  
 CN 2-Propenoic acid, polymer with N-dodecyl-2-propenamide and 2-propenamide  
 (9CI) (CA INDEX NAME)

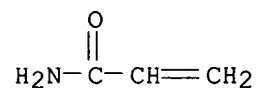
CM 1

CRN 1506-53-2  
CMF C15 H29 N O

CM 2

CRN 79-10-7  
CMF C3 H4 O2

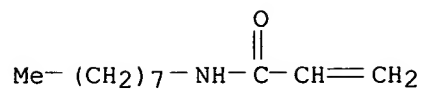
CM 3

CRN 79-06-1  
CMF C3 H5 N O

RN 145289-02-7 HCAPLUS  
 CN 2-Propenoic acid, polymer with N-octyl-2-propenamide and 2-propenamide  
 (9CI) (CA INDEX NAME)

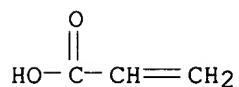
CM 1

CRN 10124-68-2  
CMF C11 H21 N O



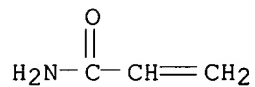
CM 2

CRN 79-10-7  
CMF C3 H4 O2



CM 3

CRN 79-06-1  
CMF C3 H5 N O

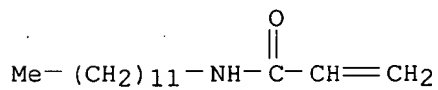


RN 145289-03-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with N-dodecyl-2-propenamide,  
2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

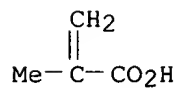
CM 1

CRN 1506-53-2  
CMF C15 H29 N O



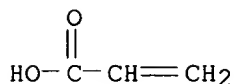
CM 2

CRN 79-41-4  
CMF C4 H6 O2



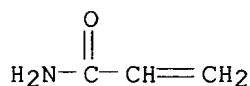
CM 3

CRN 79-10-7  
CMF C3 H4 O2

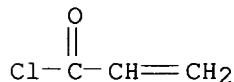


CM 4

CRN 79-06-1  
CMF C3 H5 N O



IT **814-68-6**, Acryloyl chloride  
RL: RCT (Reactant)  
(reaction of, with alkylamines)  
RN 814-68-6 HCAPLUS  
CN 2-Propenoyl chloride (9CI) (CA INDEX NAME)



L8 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1988:427612 HCAPLUS  
DOCUMENT NUMBER: 109:27612  
TITLE: Thickening agent containing anionic **carboxy**  
polymers and cellulose grafted with quaternary  
ammonium salts for pharmaceuticals and cosmetics  
INVENTOR(S): Gollier, Jean Francois; Dubief, Claude; **Mondet, Jean**  
PATENT ASSIGNEE(S): Oreal S. A., Fr.  
SOURCE: Ger. Offen., 12 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3716381	A1	19871119	DE 1987-3716381	19870515
DE 3716381	C2	19990121		
CA 1299301	A1	19920421	CA 1987-536115	19870430
DK 8702440	A	19871117	DK 1987-2440	19870513
FR 2598611	A1	19871120	FR 1987-6804	19870514
FR 2598611	B1	19880923		
ES 2005574	A6	19890316	ES 1987-1443	19870514
CH 672793	A	19891229	CH 1987-1863	19870514

SE 8702007	A	19871117	SE 1987-2007	19870515
SE 465351	B	19910902		
SE 465351	C	19920102		
JP 62277311	A2	19871202	JP 1987-118706	19870515
JP 08009528	B4	19960131		
NL 8701174	A	19871216	NL 1987-1174	19870515
GB 2193501	A1	19880210	GB 1987-11581	19870515
GB 2193501	B2	19900523		
BE 1000398	A3	19881122	BE 1987-541	19870515
US 4839166	A	19890613	US 1987-49785	19870515

## PRIORITY APPLN. INFO.:

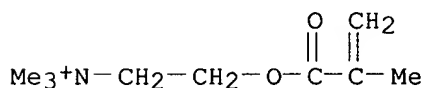
LU 1986-86429 19860516

AB The title compds. are useful as thickeners for pharmaceutical formulations and cosmetics; they are prepd. by mixing a cationic polymer consisting of cellulose or cellulose derivs. grafted with water-sol. monomeric quaternary ammonium salts (I), and an anionic **carboxy** polymer (II) which has a capillary viscosity .ltoreq.30.times.10<sup>-3</sup> Pas in DMF or MeOH at 30.degree. and 5% concn.; a 1% aq. soln. of th thickening agent has an Epprecht-Drage viscosity of >0.45 Pas at Module 3 at 21.degree.. An aq. gel was prepd. by mixing a 1% aq. soln. contg. hydroxyethyl cellulose grafted with diallyldimethylammonium salt (Celquat L 200) with a 1% ethanolic soln. contg. neutralized II (methacrylic acid-Me methacrylate copolymer 50:50). A gel for treatment of psoriasis contained Anthralin 0.5, Celquat L 200 0.5, methacrylic acid-Me methacrylate copolymer (50:50) 0.5, H2O 100 g, sufficient 2-amino-2-methyl-1-propanol to adjust to pH 7, EtOH, and preservative. The gel had an Epprecht-Drage viscosity of 1.2 Pas at 1% concn. at 21.degree. and module 3. The compn. was applied to the skin and did not require aq. rinsing.

IT **33611-56-2D**, graft polymers with cellulose derivs.  
**44899-48-1D**, graft polymers with cellulose derivs.  
**92183-41-0**, Celquat H 100 **9004-34-6D**, Cellulose, graft polymers with quaternary ammonium salts **9004-62-0D**, Hydroxyethyl cellulose, graft polymers with diallyldimethylammonium chloride  
 RL: BIOL (Biological study)  
 (thickening agent contg. anionic **carboxy** polymers and, for pharmaceuticals and cosmetics)

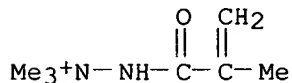
RN 33611-56-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)  
 (CA INDEX NAME)



RN 44899-48-1 HCAPLUS

CN Hydrazinium, 1,1,1-trimethyl-2-(2-methyl-1-oxo-2-propenyl)- (9CI) (CA INDEX NAME)

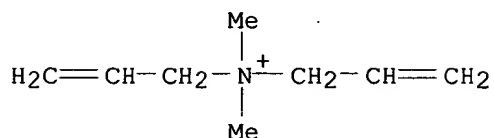


RN 92183-41-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8  
CMF C8 H16 N . Cl



CM 2

CRN 9004-62-0  
CMF C2 H6 O2 . x Unspecified  
CDES 8:GD

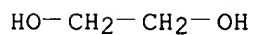
CM 3

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 4

CRN 107-21-1  
CMF C2 H6 O2



RN 9004-34-6 HCAPLUS  
CN Cellulose (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-62-0 HCAPLUS  
CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1

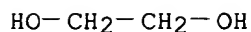
CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 107-21-1  
CMF C2 H6 O2



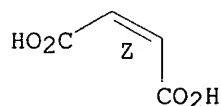


IT 25085-79-4, Ethylene-maleic acid copolymer 25086-15-1,  
 Methacrylic acid-methyl methacrylate copolymer 25087-26-7,  
 Poly(methacrylic acid) 26284-14-0, Methacrylic acid-butyl  
 methacrylate copolymer 26589-39-9, Methacrylic acid-methyl  
 acrylate copolymer 30326-74-0, Methacrylic acid-N-  
 vinylpyrrolidone copolymer 34324-82-8, Methacrylic acid-maleic  
 acid copolymer 77431-37-9 114955-50-9  
 114955-51-0 114956-77-3  
 RL: BIOL (Biological study)  
 (thickening agent contg. cellulose grafted with quaternary ammonium  
 salts and, for pharmaceuticals and cosmetics)  
 RN 25085-79-4 HCAPLUS  
 CN 2-Butenedioic acid (2Z)-, polymer with ethene (9CI) (CA INDEX NAME)

CM 1

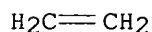
CRN 110-16-7  
 CMF C4 H4 O4  
 CDES 2:Z

Double bond geometry as shown.



CM 2

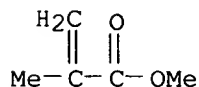
CRN 74-85-1  
 CMF C2 H4



RN 25086-15-1 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate  
 (9CI) (CA INDEX NAME)

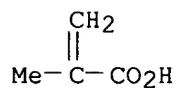
CM 1

CRN 80-62-6  
 CMF C5 H8 O2



CM 2

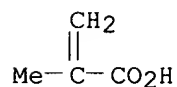
CRN 79-41-4  
CMF C4 H6 O2



RN 25087-26-7 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

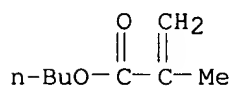
CRN 79-41-4  
CMF C4 H6 O2



RN 26284-14-0 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

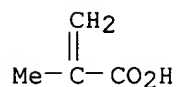
CM 1

CRN 97-88-1  
CMF C8 H14 O2



CM 2

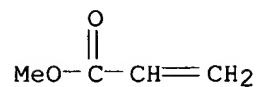
CRN 79-41-4  
CMF C4 H6 O2



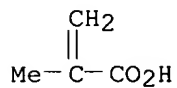
RN 26589-39-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 96-33-3  
CMF C4 H6 O2



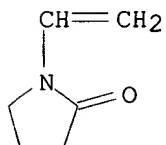
CM 2

CRN 79-41-4  
CMF C4 H6 O2

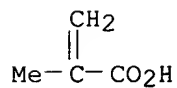
RN 30326-74-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (9CI)  
(CA INDEX NAME)

CM 1

CRN 88-12-0  
CMF C6 H9 N O

CM 2

CRN 79-41-4  
CMF C4 H6 O2

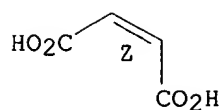
RN 34324-82-8 HCAPLUS

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-2-propenoic acid (9CI)  
(CA INDEX NAME)

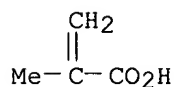
CM 1

CRN 110-16-7  
CMF C4 H4 O4  
CDES 2:Z

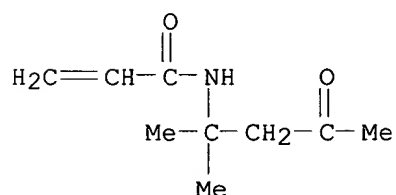
Double bond geometry as shown.



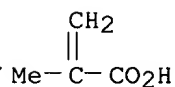
CM 2

CRN 79-41-4  
CMF C4 H6 O2RN 77431-37-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2873-97-4  
CMF C9 H15 N O2

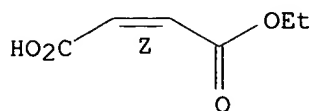
CM 2

CRN 79-41-4  
CMF C4 H6 O2RN 114955-50-9 HCAPLUS  
CN 2-Butenedioic acid (2Z)-, monoethyl ester, polymer with 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

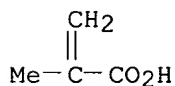
CRN 3990-03-2  
CMF C6 H8 O4  
CDES 2:2

Double bond geometry as shown.



CM 2

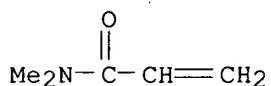
CRN 79-41-4  
CMF C4 H6 O2



RN 114955-51-0 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with N,N-dimethyl-2-propenamide (9CI)  
(CA INDEX NAME)

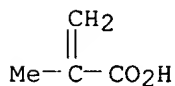
CM 1

CRN 2680-03-7  
CMF C5 H9 N O



CM 2

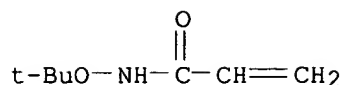
CRN 79-41-4  
CMF C4 H6 O2



RN 114956-77-3 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with N-(1,1-dimethylethoxy)-2-propenamide (9CI) (CA INDEX NAME)

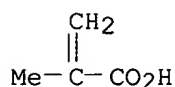
CM 1

CRN 114956-76-2  
CMF C7 H13 N O2



CM 2

CRN 79-41-4  
CMF C4 H6 O2



L8 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1981:36113 HCAPLUS  
 DOCUMENT NUMBER: 94:36113  
 TITLE: N-Vinylpyrrolidinone copolymers useful in cosmetics  
 INVENTOR(S): Jacquet, Bernard; Papantoniou, Christos; Vanlerberghe, Guy; **Mondet, Jean**  
 PATENT ASSIGNEE(S): Oreal S. A., Fr.  
 SOURCE: Ger. Offen., 26 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3004567	A1	19800821	DE 1980-3004567	19800207
DE 3004567	C2	19890615		
FR 2448549	A1	19800905	FR 1979-3261	19790208
FR 2448549	B1	19840824		
US 4321348	A	19820323	US 1980-118634	19800204
AT 8000617	A	19830915	AT 1980-617	19800205
AT 374364	B	19840410		
NL 8000740	A	19800812	NL 1980-740	19800206
ES 488971	A1	19800916	ES 1980-488971	19800206
BE 881588	A1	19800807	BE 1980-199896	19800207
JP 55106212	A2	19800814	JP 1980-13093	19800207
JP 63028084	B4	19880607		
AU 8055306	A1	19800814	AU 1980-55306	19800207
GB 2043082	A	19801001	GB 1980-4187	19800207
GB 2043082	B2	19830316		
BR 8000774	A	19801021	BR 1980-774	19800207
CA 1152694	A1	19830823	CA 1980-345240	19800207
CH 644875	A	19840831	CH 1980-996	19800207
US 4376114	A	19830308	US 1981-313488	19811021
PRIORITY APPLN. INFO.:			FR 1979-3261	19790208
			US 1980-118634	19800204

AB Copolymers of N-vinylpyrrolidinone and a vinyl, allyl, or methallyl ester of an .alpha.- or .beta.-cyclic **carboxylic** acid and (or) a C6-18 .alpha.-olefin, a C6-18 alkyl vinyl ether, and (or) a vinyl, allyl, or methallyl ester of a C2-22 aliph. acid are prepd. for use in hair sprays

and setting lotions, rinses, and shampoos. Thus, a vinyl 4-tert-butylbenzoate-vinyl acetate-N-vinylpyrrolidinone copolymer [76057-24-4] was prepd. by refluxing 35, 35, and 30 g of the resp. monomers and 0.2 g azobis(isobutyronitrile) in 300 g EtOH for 24 h, mixing with Et2O, and drying the pptd. polymer at reduced pressure. The yield was 42%, and the polymer had a viscosity of 1.56 cP (5% in DMF at 34.6.degree.). An aerosol hair spray was prepd. from the copolymer 3, EtOH or iso-PrOH 40, CH2Cl2 20, and propellant (propane-butane, 35:65) 40 g.

IT 76057-24-4P 76057-25-5P 76057-26-6P  
76057-27-7P 76057-28-8P 76057-29-9P  
76057-30-2P 76057-31-3P 76057-32-4P  
76094-24-1P

RL: PREP (Preparation)  
(prepn. of, for hair preps.)

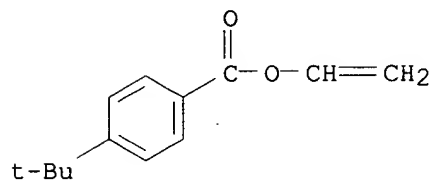
RN 76057-24-4 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 15484-80-7

CMF C13 H16 O2



CM 2

CRN 108-05-4

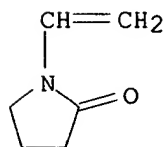
CMF C4 H6 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



RN 76057-25-5 HCAPLUS

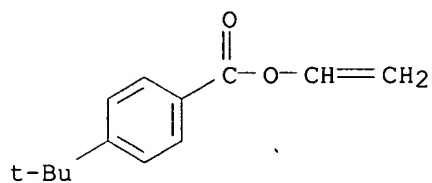
CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with

1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 15484-80-7

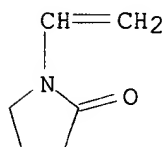
CMF C13 H16 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



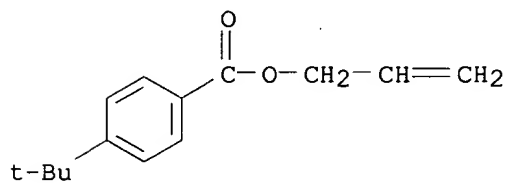
RN 76057-26-6 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-propenyl ester, polymer with ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 73489-59-5

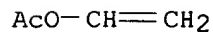
CMF C14 H18 O2



CM 2

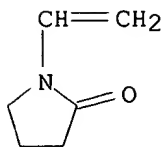
CRN 108-05-4

CMF C4 H6 O2



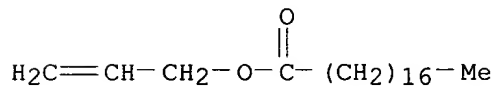


CM 3

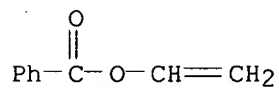
CRN 88-12-0  
CMF C6 H9 N O

RN 76057-27-7 HCAPLUS  
 CN Benzoic acid, ethenyl ester, polymer with ethenyl acetate,  
 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA INDEX  
 NAME)

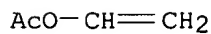
CM 1

CRN 6289-31-2  
CMF C21 H40 O2

CM 2

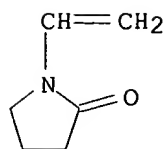
CRN 769-78-8  
CMF C9 H8 O2

CM 3

CRN 108-05-4  
CMF C4 H6 O2

CM 4

CRN 88-12-0  
CMF C6 H9 N O

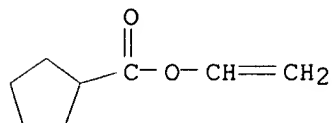


RN 76057-28-8 HCAPLUS  
 CN Cyclopentanecarboxylic acid, ethenyl ester, polymer with ethenyl acetate,  
 1-(ethenyloxy)dodecane and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX  
 NAME)

CM 1

CRN 16523-06-1

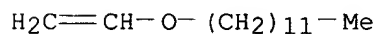
CMF C8 H12 O2



CM 2

CRN 765-14-0

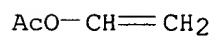
CMF C14 H28 O



CM 3

CRN 108-05-4

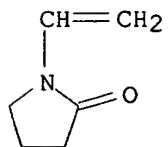
CMF C4 H6 O2



CM 4

CRN 88-12-0

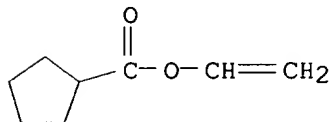
CMF C6 H9 N O



RN 76057-29-9 HCAPLUS  
 CN Benzoic acid, 2-propenyl ester, polymer with ethenyl  
 cyclopentanecarboxylate, ethenyl propanoate and 1-ethenyl-2-pyrrolidinone  
 (9CI) (CA INDEX NAME)

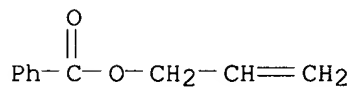
CM 1

CRN 16523-06-1  
 CMF C8 H12 O2



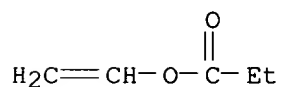
CM 2

CRN 583-04-0  
 CMF C10 H10 O2



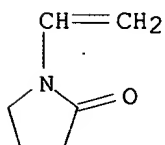
CM 3

CRN 105-38-4  
 CMF C5 H8 O2



CM 4

CRN 88-12-0  
 CMF C6 H9 N O

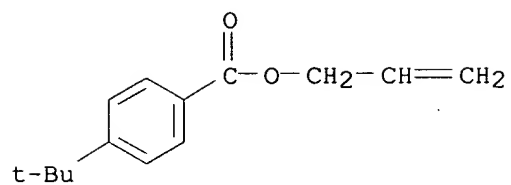


RN 76057-30-2 HCAPLUS  
 CN Benzeneacetic acid, ethenyl ester, polymer with ethenyl acetate,  
 1-ethenyl-2-pyrrolidinone, 2-propenyl 4-(1,1-dimethylethyl)benzoate and  
 2-propenyl propanoate (9CI) (CA INDEX NAME)

CM 1

CRN 73489-59-5

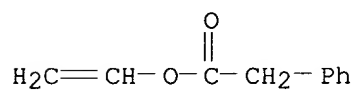
CMF C14 H18 O2



CM 2

CRN 18120-64-4

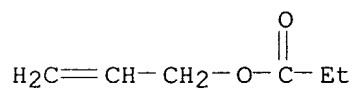
CMF C10 H10 O2



CM 3

CRN 2408-20-0

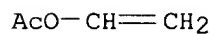
CMF C6 H10 O2



CM 4

CRN 108-05-4

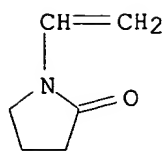
CMF C4 H6 O2



CM 5

CRN 88-12-0

CMF C6 H9 N O

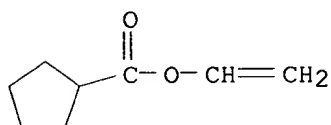


RN 76057-31-3 HCAPLUS  
 CN Cyclopentanecarboxylic acid, ethenyl ester, polymer with ethenyl acetate,  
 1-(ethenyloxy)octadecane and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX  
 NAME) ,

CM 1

CRN 16523-06-1

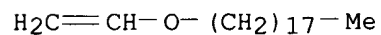
CMF C8 H12 O2



CM 2

CRN 930-02-9

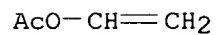
CMF C20 H40 O



CM 3

CRN 108-05-4

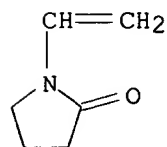
CMF C4 H6 O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



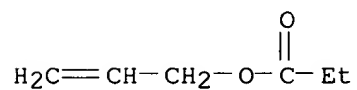
RN 76057-32-4 HCAPLUS

CN Benzoic acid, ethenyl ester, polymer with ethenyl acetate, ethenyl  
propanoate, 1-ethenyl-2-pyrrolidinone and 2-propenyl propanoate (9CI) (CA  
INDEX NAME)

CM 1

CRN 2408-20-0

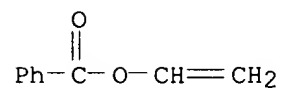
CMF C6 H10 O2



CM 2

CRN 769-78-8

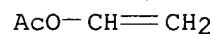
CMF C9 H8 O2



CM 3

CRN 108-05-4

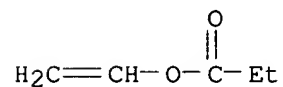
CMF C4 H6 O2



CM 4

CRN 105-38-4

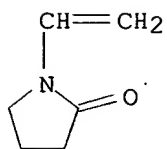
CMF C5 H8 O2



CM 5

CRN 88-12-0

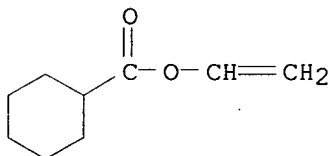
CMF C6 H9 N O



RN 76094-24-1 HCAPLUS  
 CN Cyclohexanecarboxylic acid, ethenyl ester, polymer with ethenyl acetate  
 and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

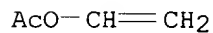
CM 1

CRN 4840-76-0  
 CMF C9 H14 O2



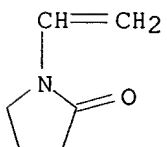
CM 2

CRN 108-05-4  
 CMF C4 H6 O2



CM 3

CRN 88-12-0  
 CMF C6 H9 N O



L8 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1980:185720 HCAPLUS  
 DOCUMENT NUMBER: 92:185720  
 TITLE: Cosmetic composition  
 INVENTOR(S): Papantoniou, Christos; Mondet, Jean  
 PATENT ASSIGNEE(S): Oreal S. A., Fr.  
 SOURCE: Ger. Offen., 29 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent

LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2925358	A1	19800103	DE 1979-2925358	19790622
FR 2429013	A1	19800118	FR 1978-18832	19780623
FR 2429013	B1	19801107		
FR 2448346	A2	19800905	FR 1979-3260	19790208
FR 2448346	B2	19810213		
US 4272511	A	19810609	US 1979-50428	19790620
BE 877151	A1	19791221	BE 1979-195873	19790621
NL 7904864	A	19791228	NL 1979-4864	19790621
CA 1142436	A1	19830308	CA 1979-330298	19790621
CH 639844	A	19831215	CH 1979-5817	19790621
JP 55002691	A2	19800110	JP 1979-78220	19790622
GB 2026004	A	19800130	GB 1979-21771	19790622
GB 2026004	B2	19821117		

PRIORITY APPLN. INFO.:

FR 1978-18832 19780623  
 FR 1979-3260 19790208

AB Copolymers, suitable for use in cosmetics, esp. hair sprays, aq. wave lotions, and shampoos, were prepd. by copolymn. of 1-30% N-vinylpyrrolidone, 13-87% vinyl acetate, and 1-80% of at least a 4th monomer: H<sub>2</sub>C:CHO<sub>2</sub>CR<sub>1</sub> (R<sub>1</sub> = C<sub>2</sub>-21 alkyl); H<sub>2</sub>C:CR<sub>3</sub>CH<sub>2</sub>O<sub>2</sub>CR<sub>2</sub> (R<sub>2</sub> = C<sub>1</sub>-21 alkyl, R<sub>3</sub> = H, Me); CH<sub>2</sub>:CHOR<sub>4</sub> (R<sub>4</sub> = C<sub>4</sub>-18 alkyl); CH<sub>2</sub>:CH(CH<sub>2</sub>)<sub>n</sub>Me (n = 3-15); vinyl, allyl, or methallyl esters of .alpha.- or .beta.-cyclic **carboxylic** acids. Thus, a vinyl acetate-N-vinylpyrrolidone-crotonic acid-allyl stearate copolymer [73489-50-6] was prepd. by heating the monomers with Me<sub>3</sub>CO<sub>2</sub>COCH<sub>2</sub>EtBu in EtOH 18 h at 70.degree.. This copolymer was mixed with 7.6 HOCH<sub>2</sub>CMe<sub>2</sub>NH<sub>2</sub> to pH 7, EtOH to 100 g; 22 g of this mixt. was used with 78 g of 61.5:38.5 Freon 11-Freon 12 in an aerosol container. No scaling was noticed in hair treated with this spray.

IT 73489-57-3P 73489-63-1P

RL: PREP (Preparation)  
 (prepn. of, for hair lotion)

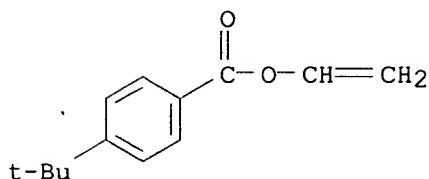
RN 73489-57-3 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 15484-80-7

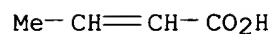
CMF C13 H16 O2



CM 2

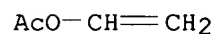


CRN 3724-65-0  
CMF C4 H6 O2



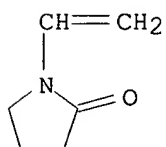
CM 3

CRN 108-05-4  
CMF C4 H6 O2



CM 4

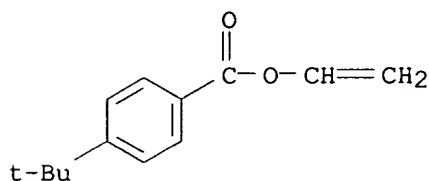
CRN 88-12-0  
CMF C6 H9 N O



RN 73489-63-1 HCAPLUS  
CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl  
octadecanoate (9CI) (CA INDEX NAME)

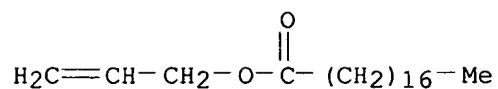
CM 1

CRN 15484-80-7  
CMF C13 H16 O2



CM 2

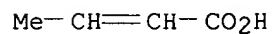
CRN 6289-31-2  
CMF C21 H40 O2



CM 3

CRN 3724-65-0

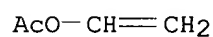
CMF C4 H6 O2



CM 4

CRN 108-05-4

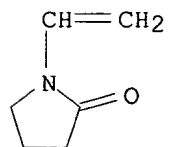
CMF C4 H6 O2



CM 5

CRN 88-12-0

CMF C6 H9 N O



IT 73489-50-6P 73489-68-6P 73489-71-1P

RL: PREP (Preparation)

(prepn. of, for hair spray)

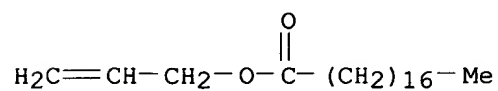
RN 73489-50-6 HCAPLUS

CN Octadecanoic acid, 2-propenyl ester, polymer with 2-butenic acid, ethenyl acetate and 1-ethenyl-2-piperidinone (9CI) (CA INDEX NAME)

CM 1

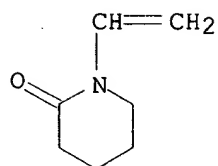
CRN 6289-31-2

CMF C21 H40 O2



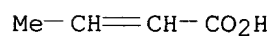
CM 2

CRN 4370-23-4  
CMF C7 H11 N O



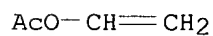
CM 3

CRN 3724-65-0  
CMF C4 H6 O2



CM 4

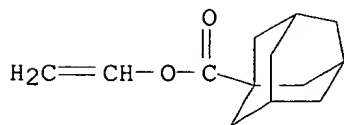
CRN 108-05-4  
CMF C4 H6 O2



RN 73489-68-6 HCAPLUS  
CN Tricyclo[3.3.1.1<sup>3,7</sup>]decane-1-carboxylic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA INDEX NAME)

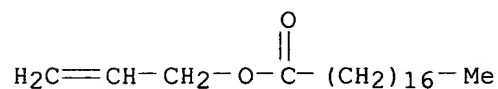
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CM 2

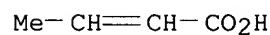
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CMF C21 H40 O2



CM 3

CRN 3724-65-0

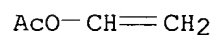
CMF C4 H6 O2



CM 4

CRN 108-05-4

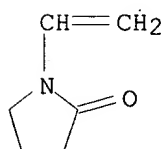
CMF C4 H6 O2



CM 5

CRN 88-12-0

CMF C6 H9 N O



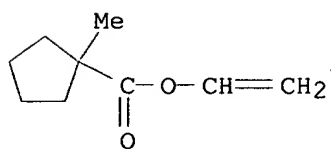
RN 73489-71-1 HCAPLUS

CN Cyclopentanecarboxylic acid, 1-methyl-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl  
octadecanoate (9CI) (CA INDEX NAME)

CM 1

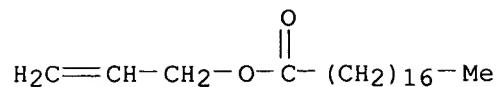
CRN 73489-70-0

CMF C9 H14 O2



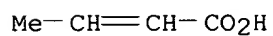
CM 2

CRN 6289-31-2  
CMF C21 H40 O2



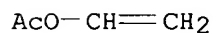
CM 3

CRN 3724-65-0  
CMF C4 H6 O2



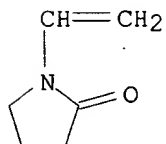
CM 4

CRN 108-05-4  
CMF C4 H6 O2



CM 5

CRN 88-12-0  
CMF C6 H9 N O



IT 73489-53-9P 73489-55-1P 73489-56-2P  
73489-58-4P 73489-60-8P 73489-61-9P  
73489-62-0P 73489-64-2P 73489-65-3P  
73489-66-4P 73489-67-5P 73489-69-7P  
73489-72-2P

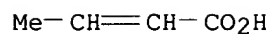
RL: PREP (Preparation)  
(prepn. of, for shampoo)

RN 73489-53-9 HCAPLUS

CN Dodecanoic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

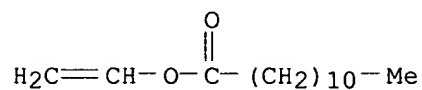
CM 1

CRN 3724-65-0  
CMF C4 H6 O2



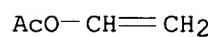
CM 2

CRN 2146-71-6  
CMF C14 H26 O2



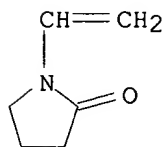
CM 3

CRN 108-05-4  
CMF C4 H6 O2



CM 4

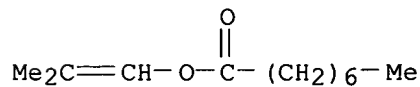
CRN 88-12-0  
CMF C6 H9 N O



RN 73489-55-1 HCAPLUS  
CN Octanoic acid, 2-methyl-1-propenyl ester, polymer with 2-butenic acid, ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

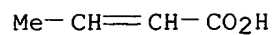
CM 1

CRN 73489-54-0  
CMF C12 H22 O2



CM 2

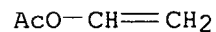
CRN 3724-65-0  
CMF C4 H6 O2



CM 3

CRN 108-05-4

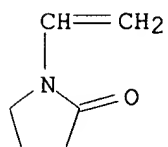
CMF C4 H6 O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



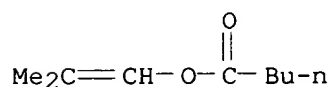
RN 73489-56-2 HCAPLUS

CN Pentanoic acid, 2-methyl-1-propenyl ester, polymer with 2-butenic acid, ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 55088-63-6

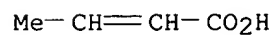
CMF C9 H16 O2



CM 2

CRN 3724-65-0

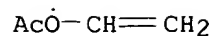
CMF C4 H6 O2



CM 3

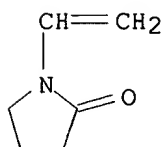
CRN 108-05-4

CMF C4 H6 O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O

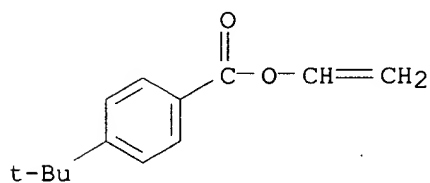


RN 73489-58-4 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate, ethenyl octadecanoate and  
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

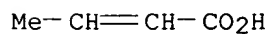
CM 1

CRN 15484-80-7  
CMF C13 H16 O2



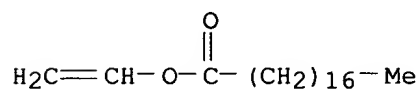
CM 2

CRN 3724-65-0  
CMF C4 H6 O2



CM 3

CRN 111-63-7  
CMF C20 H38 O2

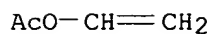




CM 4

CRN 108-05-4

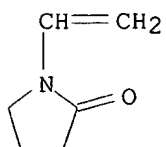
CMF C4 H6 O2



CM 5

CRN 88-12-0

CMF C6 H9 N O



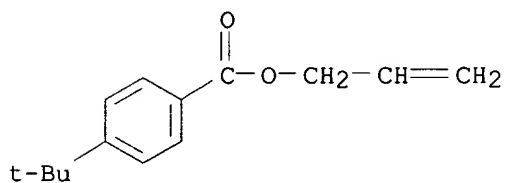
RN 73489-60-8 HCAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-propenyl ester, polymer with  
2-butenic acid, ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA  
INDEX NAME)

CM 1

CRN 73489-59-5

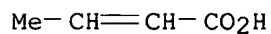
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CM 2

CRN 3724-65-0

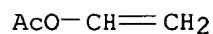
CMF C4 H6 O2



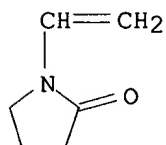
CM 3

CRN 108-05-4

CMF C4 H6 O2



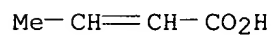
CM 4

 CRN 88-12-0  
 CMF C6 H9 N O


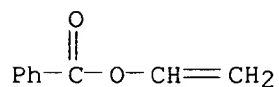
RN 73489-61-9 HCAPLUS

 CN Benzoic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate  
 and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

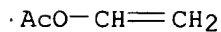
CM 1

 CRN 3724-65-0  
 CMF C4 H6 O2


CM 2

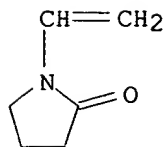
 CRN 769-78-8  
 CMF C9 H8 O2


CM 3

 CRN 108-05-4  
 CMF C4 H6 O2


CM 4

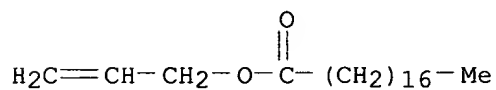
 CRN 88-12-0  
 CMF C6 H9 N O



RN 73489-62-0 HCAPLUS  
 CN Benzoic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl  
 acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA  
 INDEX NAME)

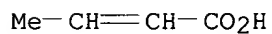
CM 1

CRN 6289-31-2  
 CMF C21 H40 O2



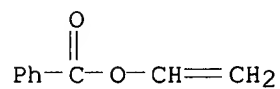
CM 2

CRN 3724-65-0  
 CMF C4 H6 O2



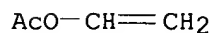
CM 3

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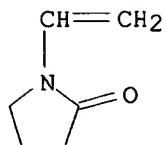
CM 4

CRN 108-05-4  
 CMF C4 H6 O2



CM 5

CRN 88-12-0  
 CMF C6 H9 N O



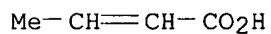
RN 73489-64-2 HCAPLUS

CN Benzoic acid, 2-propenyl ester, polymer with 2-butenic acid, ethenyl  
acetate, ethenyl octadecanoate, ethenyl propanoate and  
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 3724-65-0

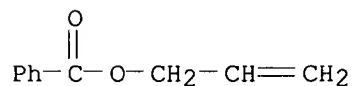
CMF C4 H6 O2



CM 2

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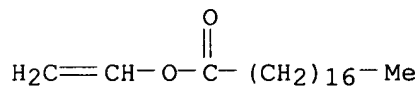
CMF C10 H10 O2



CM 3

CRN 111-63-7

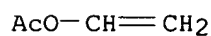
CMF C20 H38 O2



CM 4

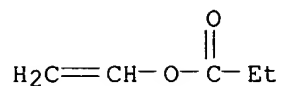
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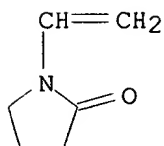
CM 5

CRN 105-38-4  
CMF C5 H8 O2



CM 6

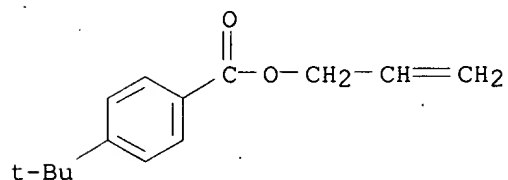
CRN 88-12-0  
CMF C6 H9 N O



RN 73489-65-3 HCAPLUS  
CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-propenyl ester, polymer with  
2-butenic acid, ethenyl acetate, ethenyl octadecanoate and  
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

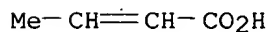
CM 1

CRN 73489-59-5  
CMF C14 H18 O2



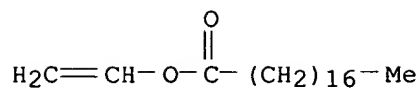
CM 2

CRN 3724-65-0  
CMF C4 H6 O2



CM 3

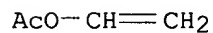
CRN 111-63-7  
CMF C20 H38 O2



CM 4

CRN 108-05-4

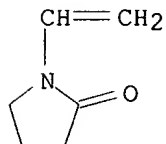
CMF C4 H6 O2



CM 5

CRN 88-12-0

CMF C6 H9 N O



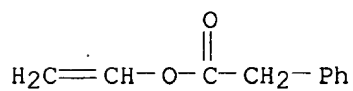
RN 73489-66-4 HCAPLUS

CN Benzeneacetic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 18120-64-4

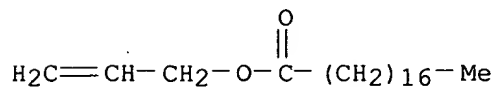
CMF C10 H10 O2



CM 2

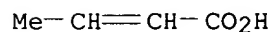
CRN 6289-31-2

CMF C21 H40 O2



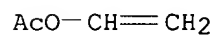
CM 3

CRN 3724-65-0  
CMF C4 H6 O2



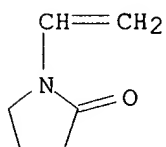
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CRN 108-05-4  
CMF C4 H6 O2



CM 5

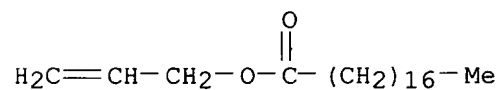
CRN 88-12-0  
CMF C6 H9 N O



RN 73489-67-5 HCAPLUS  
CN Cyclohexanecarboxylic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA INDEX NAME)

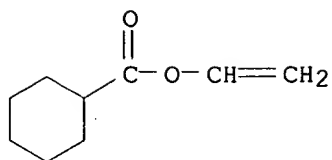
CM 1

CRN 6289-31-2  
CMF C21 H40 O2



CM 2

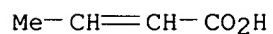
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CMF C9 H14 O2



CM 3

CRN 3724-65-0

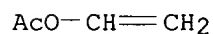
CMF C4 H6 O2



CM 4

CRN 108-05-4

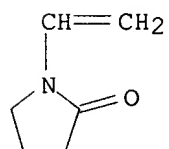
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CM 5

CRN 88-12-0

CMF C6 H9 N O



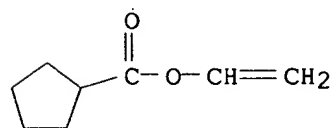
RN 73489-69-7 HCAPLUS

CN Cyclopentanecarboxylic acid, ethenyl ester, polymer with 2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl octadecanoate (9CI) (CA INDEX NAME)

CM 1

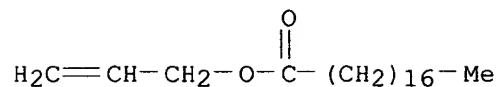
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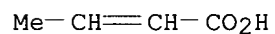




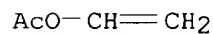
CM 2

CRN 6289-31-2  
CMF C21 H40 O2

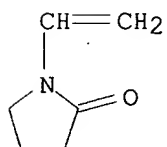
CM 3

CRN 3724-65-0  
CMF C4 H6 O2

CM 4

CRN 108-05-4  
CMF C4 H6 O2

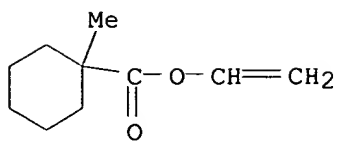
CM 5

CRN 88-12-0  
CMF C6 H9 N O

RN 73489-72-2 HCAPLUS  
CN Cyclohexanecarboxylic acid, 1-methyl-, ethenyl ester, polymer with  
2-butenic acid, ethenyl acetate, 1-ethenyl-2-pyrrolidinone and 2-propenyl  
octadecanoate (9CI) (CA INDEX NAME)

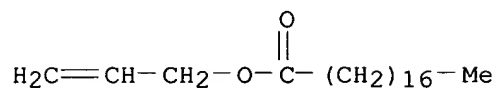
CM 1

CRN 16696-05-2  
CMF C10 H16 O2



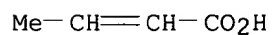
CM 2

CRN 6289-31-2  
CMF C21 H40 O2



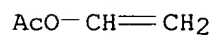
CM 3

CRN 3724-65-0  
CMF C4 H6 O2



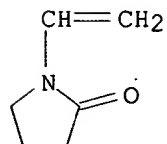
CM 4

CRN 108-05-4  
CMF C4 H6 O2



CM 5

CRN 88-12-0  
CMF C6 H9 N O

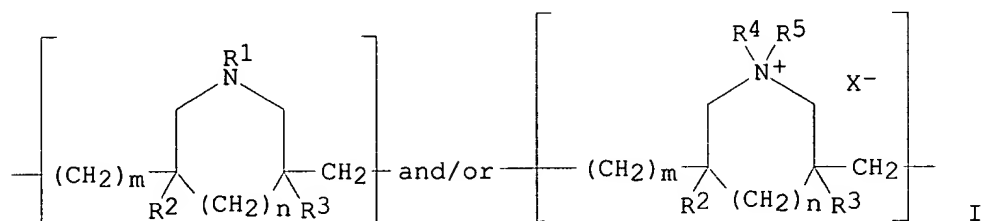


L8 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1979:462578 HCAPLUS  
 DOCUMENT NUMBER: 91:62578  
 TITLE: Cosmetic compositions for hair and skin care  
 INVENTOR(S): Jacquet, Bernard; Papantoniou, Christos; Mondet,

PATENT ASSIGNEE(S): **Jean**  
 SOURCE: Oreal S. A., Fr.  
 Ger. Offen., 63 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2841377	A1	19790329	DE 1978-2841377	19780922
US 4287172	A	19810901	US 1978-944140	19780920
CA 1117016	A1	19820126	CA 1978-311714	19780920
FR 2403794	A1	19790420	FR 1978-27074	19780921
FR 2403794	B1	19810529		
BE 870685	A1	19790322	BE 1978-190648	19780922
GB 2004743	A	19790411	GB 1978-37837	19780922
GB 2004743	B2	19820804		
JP 54095739	A2	19790728	JP 1978-116059	19780922
CH 634221	A	19830131	CH 1978-9951	19780922
US 4426375	A	19840117	US 1981-276193	19810622
PRIORITY APPLN. INFO.:			LU 1977-78170	19770923
			US 1978-944140	19780920

GI



AB Shampoo compns. contg. polymeric I [R1 = **carboxyalkyl**, chlorohydroxyalkyl, epoxypropyl, cyanoethyl, substituent alkanoyl; R2, R3 = H, Me; R4 = H, alkyl, ethoxyalkyl, **carboxyalkyl**, PhCH2; R5 = ethoxyallyl, **carboxyalkyl**, PhCH2, ClCH2CH(OH)CH2, epoxypropyl, cyanoalkyl, substituted alkanoyl, diaminotriazinyl, allyl; X = halide; n = 0-2, m = 0.1] were prep'd. by polymg. and copolymg. various monomeric alkyltriallammonium halides. Thus, heating MeN+(CH2CH:CH2)3 Br- in alc. contg. azoisobutyronitrile 72 h at 70.degree. gave 40% of a polymeric material. Addn. of other allyl or acryloyl monomers gave a variety of copolymers.

IT 70642-15-8P 70642-17-0P 70642-19-2P  
 70642-21-6P 70642-23-8P 70642-25-0P  
 70642-27-2P 70642-29-4P 70642-30-7P  
 70642-31-8P 70642-32-9P 70642-33-0P  
 70642-34-1P 70642-35-2P 70642-36-3P  
 70642-38-5P 70642-39-6P 70642-40-9P  
 70642-41-0P 70642-42-1P 70642-43-2P  
 70642-44-3P 70642-45-4P 70642-46-5P  
 70642-47-6P 70642-48-7P 70642-49-8P  
 70642-50-1P 70642-51-2P 70642-52-3P  
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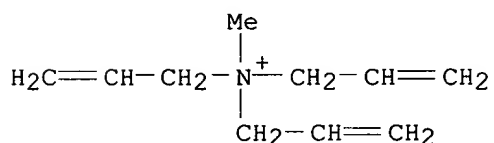
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 70796-47-3P 70803-35-9P 70803-36-0P  
 70943-94-1P

RL: PREP (Preparation)  
 (prepn. of, for shampoos)

RN 70642-15-8 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, homopolymer  
 (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br

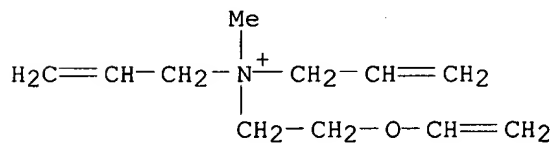


● Br<sup>-</sup>

RN 70642-17-0 HCAPLUS  
 CN 2-Propen-1-aminium, N-[2-(ethenyloxy)ethyl]-N-methyl-N-2-propenyl-,  
 bromide, polymer with N-methyl-N,N-di-2-propenyl-2-propen-1-aminium  
 bromide (9CI) (CA INDEX NAME)

CM 1

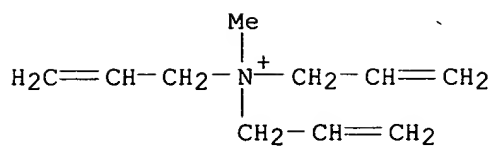
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● Br<sup>-</sup>

CM 2

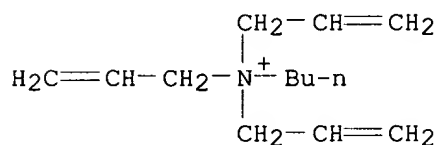
CRN 70642-14-7  
 CMF C10 H18 N . Br

● Br<sup>-</sup>

RN 70642-19-2 HCAPLUS  
 CN 1-Butanaminium, N,N,N-tri-2-propenyl-, bromide, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

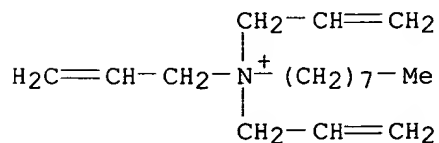
CRN 70642-18-1  
 CMF C13 H24 N . Br

● Br<sup>-</sup>

RN 70642-21-6 HCAPLUS  
 CN 1-Octanaminium, N,N,N-tri-2-propenyl-, bromide, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 70642-20-5  
 CMF C17 H32 N . Br

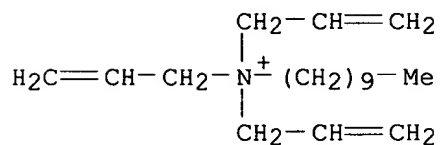
● Br<sup>-</sup>

RN 70642-23-8 HCAPLUS  
 CN 1-Decanaminium, N,N,N-tri-2-propenyl-, bromide, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 70642-22-7

CMF C19 H36 N . Br

● Br<sup>-</sup>

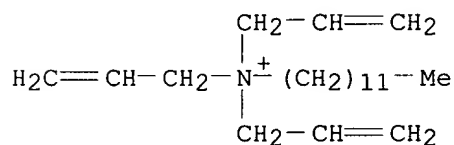
RN 70642-25-0 HCAPLUS

CN 1-Dodecanaminium, N,N,N-tri-2-propenyl-, bromide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 70642-24-9

CMF C21 H40 N . Br

● Br<sup>-</sup>

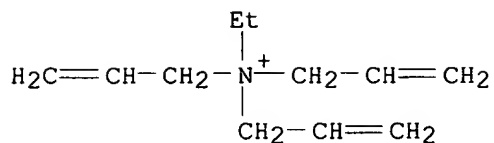
RN 70642-27-2 HCAPLUS

CN 2-Propen-1-aminium, N-ethyl-N,N-di-2-propenyl-, bromide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 70642-26-1

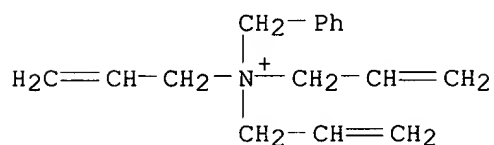
CMF C11 H20 N . Br

● Br<sup>-</sup>

RN 70642-29-4 HCAPLUS  
 CN Benzenemethanaminium, N,N,N-tri-2-propenyl-, bromide, homopolymer (9CI)  
 (CA INDEX NAME)

CM 1

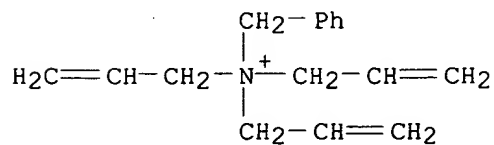
CRN 70642-28-3  
 CMF C16 H22 N . Br

● Br<sup>-</sup>

RN 70642-30-7 HCAPLUS  
 CN Benzenemethanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
 N,N-dimethyl-N-2-propenyl-2-propen-1-aminium bromide (9CI) (CA INDEX  
 NAME)

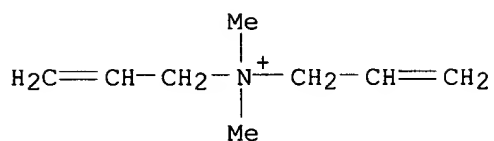
CM 1

CRN 70642-28-3  
 CMF C16 H22 N . Br

● Br<sup>-</sup>

CM 2

CRN 14764-64-8  
CMF C8 H16 N . Br

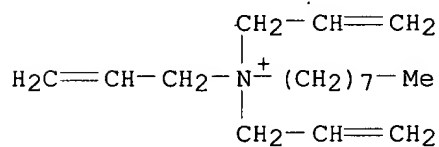


● Br<sup>-</sup>

RN 70642-31-8 HCAPLUS  
CN 1-Octanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
N,N,N-tri-2-propenyl-1-octanaminium bromide (9CI) (CA INDEX NAME)

CM 1

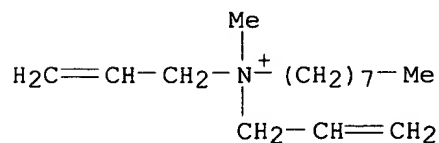
CRN 70642-20-5  
CMF C17 H32 N . Br



● Br<sup>-</sup>

CM 2

CRN 69419-86-9  
CMF C15 H30 N . Br



● Br<sup>-</sup>

RN 70642-32-9 HCAPLUS  
CN 1-Dodecanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
N-ethyl-N,N-di-2-propenyl-2-propen-1-aminium bromide (9CI) (CA INDEX

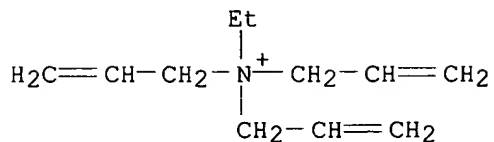


NAME)

CM 1

CRN 70642-26-1

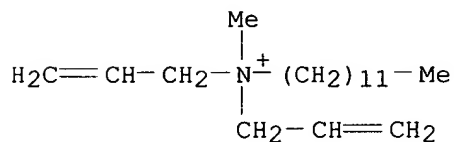
CMF C11 H20 N . Br



CM 2

CRN 41454-28-8

CMF C19 H38 N . Br



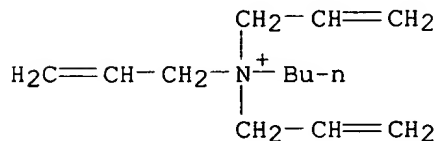
RN 70642-33-0 HCAPLUS

CN 1-Decanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with N,N,N-tri-2-propenyl-1-butanaminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-18-1

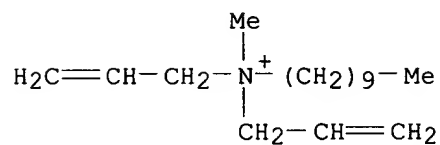
CMF C13 H24 N . Br



CM 2

CRN 69419-77-8

CMF C17 H34 N . Br

● Br<sup>-</sup>

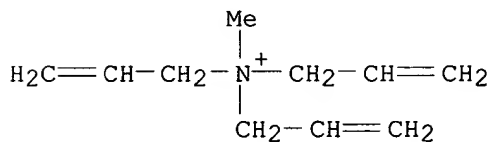
RN 70642-34-1 HCAPLUS

CN 1-Dodecanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
N-methyl-N,N-di-2-propenyl-2-propen-1-aminium bromide (9CI) (CA INDEX  
NAME)

CM 1

CRN 70642-14-7

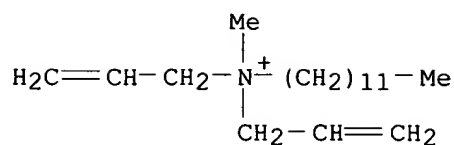
CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 41454-28-8

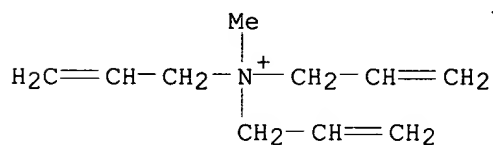
CMF C19 H38 N . Br

● Br<sup>-</sup>

RN 70642-35-2 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 N-ethyl-N-2-propenyl-2-propen-1-amine hydrochloride (9CI) (CA INDEX NAME)

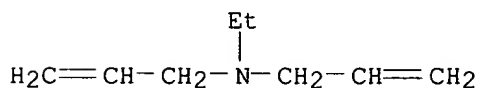
CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 13107-02-3  
 CMF C8 H15 N . Cl H

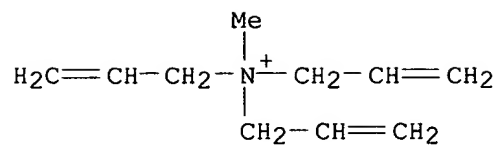


● HCl

RN 70642-36-3 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, bromide, polymer with  
 N-methyl-N,N-di-2-propenyl-2-propen-1-aminium bromide (9CI) (CA INDEX  
 NAME)

CM 1

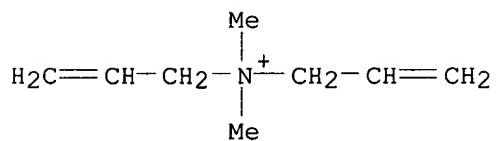
CRN 70642-14-7  
 CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 14764-64-8

CMF C8 H16 N . Br

● Br<sup>-</sup>

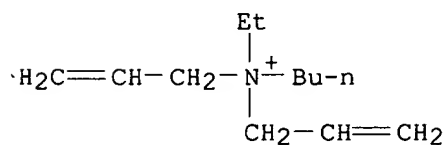
RN 70642-38-5 HCAPLUS

CN 1-Decanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
N-ethyl-N,N-di-2-propenyl-1-butanaminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-37-4

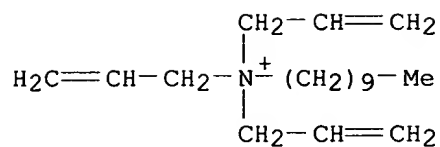
CMF C12 H24 N . Br

● Br<sup>-</sup>

CM 2

CRN 70642-22-7

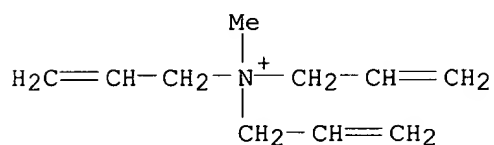
CMF C19 H36 N . Br

● Br<sup>-</sup>

RN 70642-39-6 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

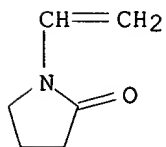
CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

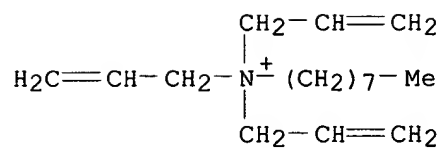
CRN 88-12-0  
 CMF C6 H9 N O



RN 70642-40-9 HCAPLUS  
 CN 1-Octanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

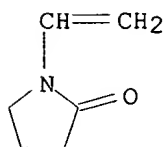
CRN 70642-20-5  
 CMF C17 H32 N . Br

● Br<sup>-</sup>

CM 2

CRN 88-12-0

CMF C6 H9 N O



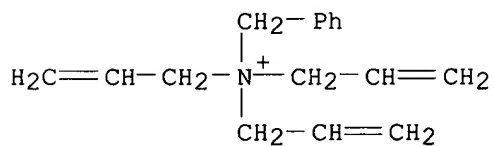
RN 70642-41-0 HCAPLUS

CN Benzenemethanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 70642-28-3

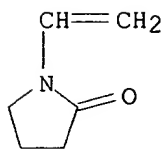
CMF C16 H22 N . Br

● Br<sup>-</sup>

CM 2

CRN 88-12-0

CMF C6 H9 N O



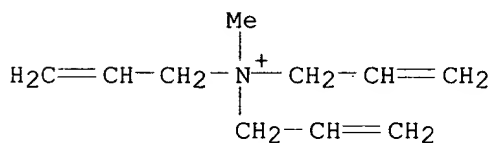
RN 70642-42-1 HCAPLUS

CN 1-Dodecanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
1-ethenyl-2-pyrrolidinone and N-methyl-N,N-di-2-propenyl-2-propen-1-  
aminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7

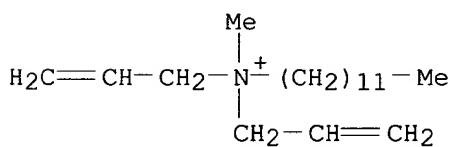
CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 41454-28-8

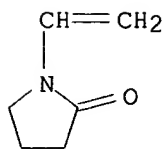
CMF C19 H38 N . Br

● Br<sup>-</sup>

CM 3

CRN 88-12-0

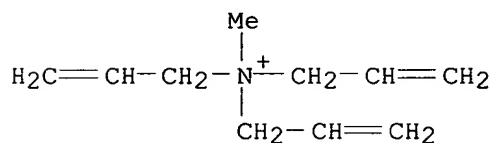
CMF C6 H9 N O



RN 70642-43-2 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 2-(dimethylamino)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

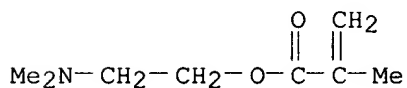
CRN 70642-14-7  
 CMF C10 H18 N . Br



● Br<sup>-</sup>

CM 2

CRN 2867-47-2  
 CMF C8 H15 N O2

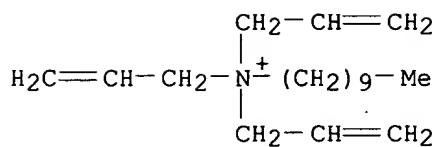


RN 70642-44-3 HCAPLUS  
 CN 1-Decanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
 2-(dimethylamino)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-22-7  
 CMF C19 H36 N . Br

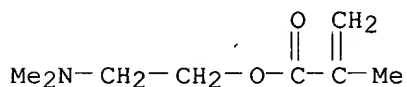


● Br<sup>-</sup>

CM 2

CRN 2867-47-2

CMF C8 H15 N O2



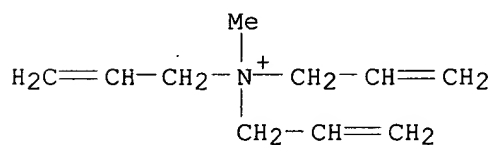
RN 70642-45-4 HCAPLUS

CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with 1-dodecene (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7

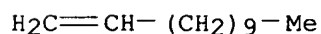
CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 112-41-4

CMF C12 H24



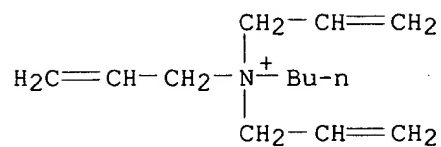
RN 70642-46-5 HCAPLUS

CN 1-Butanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with 2-propenyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-18-1

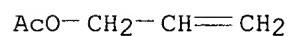
CMF C13 H24 N . Br



CM 2

CRN 591-87-7

CMF C5 H8 O2



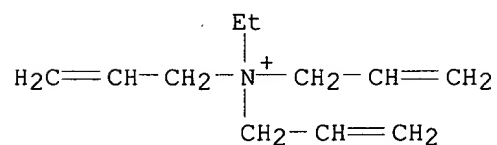
RN 70642-47-6 HCAPLUS

CN 2-Propen-1-aminium, N-ethyl-N,N-di-2-propenyl-, bromide, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-26-1

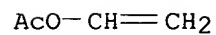
CMF C11 H20 N . Br



CM 2

CRN 108-05-4

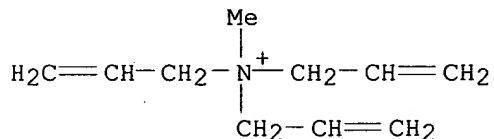
CMF C4 H6 O2



RN 70642-48-7 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

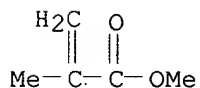
CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br



CM 2

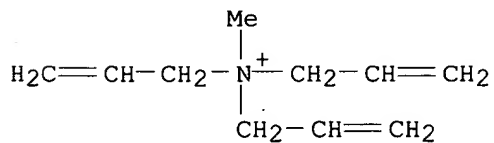
CRN 80-62-6  
 CMF C5 H8 O2



RN 70642-49-8 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 N-(1,1-dimethylethyl)-2-propenamide (9CI) (CA INDEX NAME)

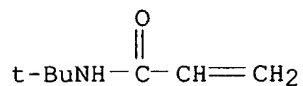
CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br



CM 2

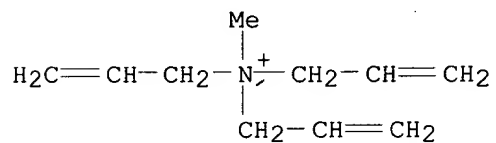
CRN 107-58-4  
CMF C7 H13 N O



RN 70642-50-1 HCAPLUS  
CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
N,N-dimethylmethanamine methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7  
CMF C10 H18 N . Br

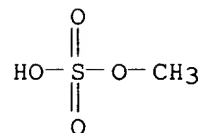


CM 2

CRN 56664-69-8  
CMF C3 H9 N . C H4 O4 S

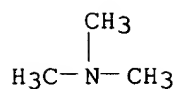
CM 3

CRN 75-93-4  
CMF C H4 O4 S



CM 4

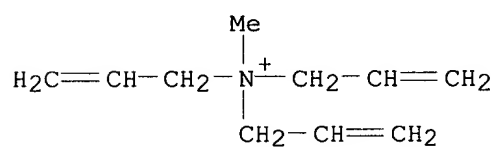
CRN 75-50-3  
CMF C3 H9 N



RN 70642-51-2 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 hexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

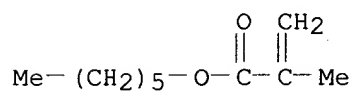
CM 1

CRN 70642-14-7  
 CMF C10 H18 N . Br



CM 2

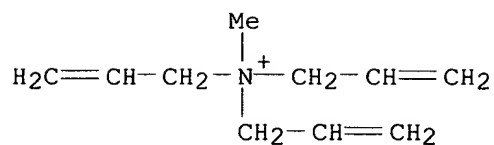
CRN 142-09-6  
 CMF C10 H18 O2



RN 70642-52-3 HCAPLUS  
 CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
 dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

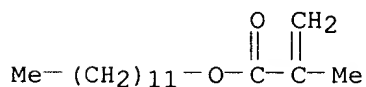
CRN 70642-14-7  
 CMF C10 H18 N . Br



CM 2

CRN 142-90-5

CMF C16 H30 O2



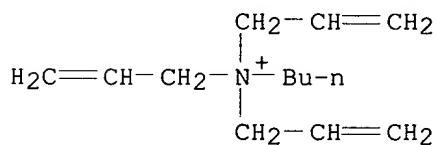
RN 70642-53-4 HCAPLUS

CN 1-Butanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
N-(1,1-dimethylethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-18-1

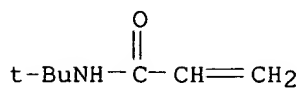
CMF C13 H24 N . Br



CM 2

CRN 107-58-4

CMF C7 H13 N O



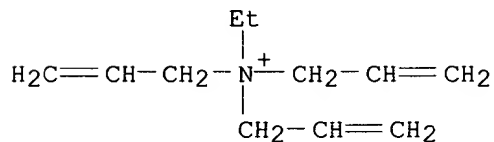
RN 70642-54-5 HCAPLUS

CN 2-Propen-1-aminium, N-ethyl-N,N-di-2-propenyl-, bromide, polymer with  
hexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-26-1

CMF C11 H20 N . Br

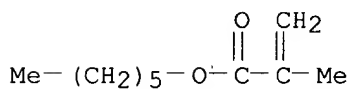


● Br<sup>-</sup>

CM 2

CRN 142-09-6

CMF C10 H18 O2



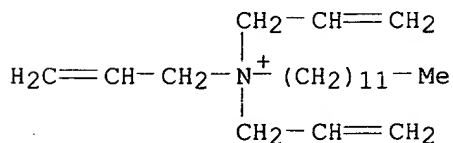
RN 70642-55-6 HCAPLUS

CN 1-Dodecanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
N-(hydroxymethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-24-9

CMF C21 H40 N . Br

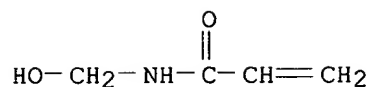


● Br<sup>-</sup>

CM 2

CRN 924-42-5

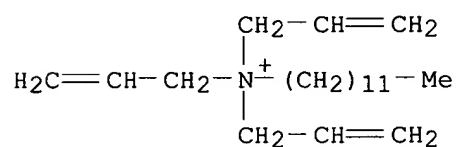
CMF C4 H7 N O2



RN 70642-56-7 HCAPLUS  
 CN 1-Dodecanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
 N-(2-hydroxy-1,1-dimethylethyl)-2-propenamide (9CI) (CA INDEX NAME)

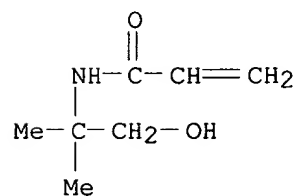
CM 1

CRN 70642-24-9  
 CMF C21 H40 N . Br



CM 2

CRN 13880-03-0  
 CMF C7 H13 N O2

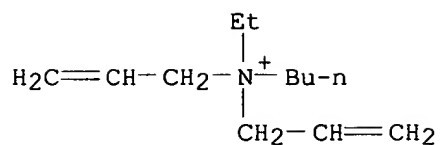


RN 70642-57-8 HCAPLUS  
 CN 1-Butanaminium, N-ethyl-N,N-di-2-propenyl-, bromide, polymer with  
 N-(1,1-dimethylethyl)-2-propenamide and N-ethyl-N,N-di-2-propenyl-2-propen-  
 1-aminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-37-4  
 CMF C12 H24 N . Br

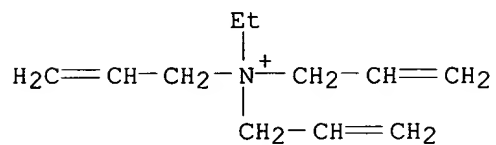


● Br<sup>-</sup>

CM 2

CRN 70642-26-1

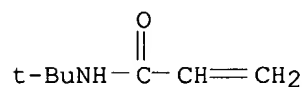
CMF C11 H20 N . Br

● Br<sup>-</sup>

CM 3

CRN 107-58-4

CMF C7 H13 N O



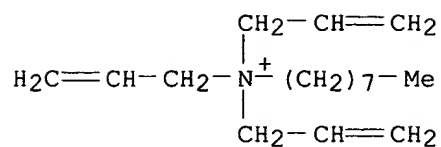
RN 70642-58-9 HCAPLUS

CN 1-Dodecanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with ethenyl acetate and N,N,N-tri-2-propenyl-1-octanaminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-20-5

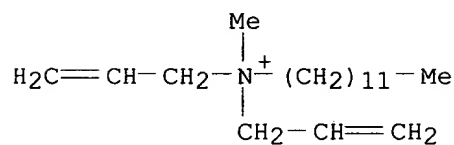
CMF C17 H32 N . Br

● Br<sup>-</sup>

CM 2

CRN 41454-28-8

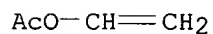
CMF C19 H38 N . Br

● Br<sup>-</sup>

CM 3

CRN 108-05-4

CMF C4 H6 O2



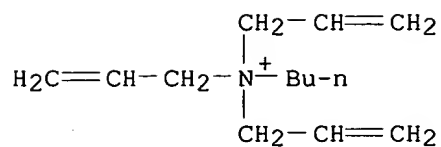
RN 70642-59-0 HCAPLUS

CN 1-Butanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
2-(dimethylamino)ethyl 2-methyl-2-propenoate and dodecyl  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-18-1

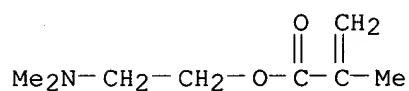
CMF C13 H24 N . Br



CM 2

CRN 2867-47-2

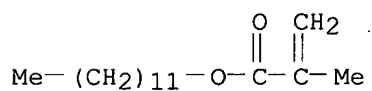
CMF C8 H15 N O2



CM 3

CRN 142-90-5

CMF C16 H30 O2



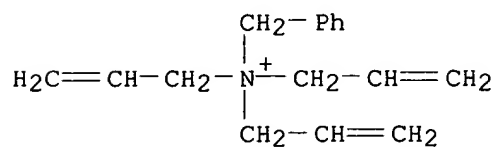
RN 70642-60-3 HCAPLUS

CN Benzenemethanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
N-(1,1-dimethylethyl)-2-propenamide and 2-propenamide (9CI) (CA INDEX  
NAME)

CM 1

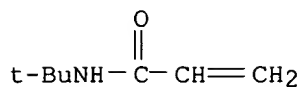
CRN 70642-28-3

CMF C16 H22 N . Br



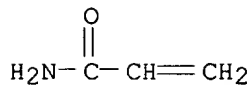
CM 2

CRN 107-58-4  
 CMF C7 H13 N O



CM 3

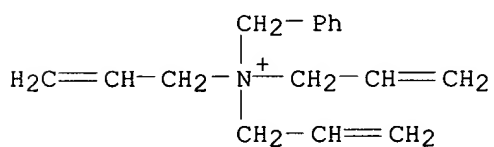
CRN 79-06-1  
 CMF C3 H5 N O



RN 70642-61-4 HCAPLUS  
 CN Benzenemethanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
 N-(hydroxymethyl)-2-propenamide and N-methyl-N,N-di-2-propenyl-1-  
 dodecanaminium bromide (9CI) (CA INDEX NAME)

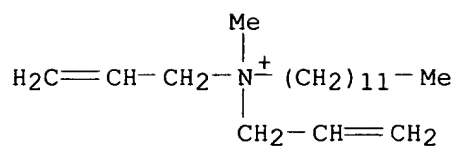
CM 1

CRN 70642-28-3  
 CMF C16 H22 N . Br



CM 2

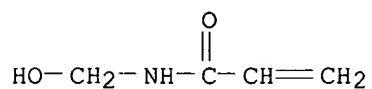
CRN 41454-28-8  
 CMF C19 H38 N . Br

● Br<sup>-</sup>

CM 3

CRN 924-42-5

CMF C4 H7 N O2



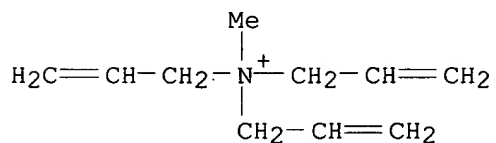
RN 70642-64-7 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with  
N-methyl-N,N-di-2-propenyl-2-propen-1-aminium bromide and  
N,N,N-trimethyl-1-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium methyl  
sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7

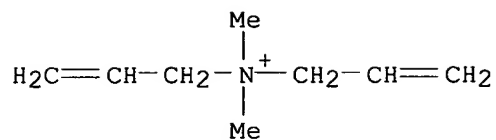
CMF C10 H18 N . Br

● Br<sup>-</sup>

CM 2

CRN 7398-69-8

CMF C8 H16 N . Cl



CM 3

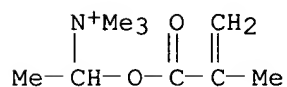
CRN 70642-63-6

CMF C9 H18 N O2 . C H3 O4 S

CM 4

CRN 70642-62-5

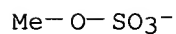
CMF C9 H18 N O2



CM 5

CRN 21228-90-0

CMF C H3 O4 S



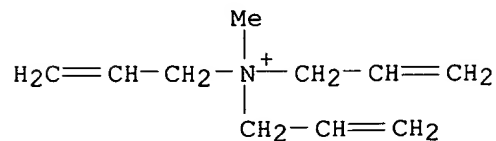
RN 70642-65-8 HCAPLUS

CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

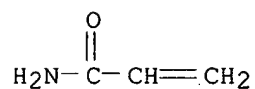
CRN 70642-14-7

CMF C10 H18 N . Br



CM 2

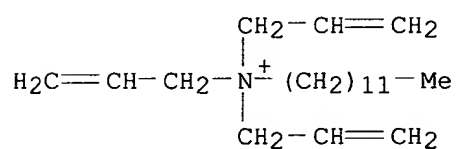
CRN 79-06-1  
CMF C3 H5 N O



RN 70678-37-4 HCAPLUS  
CN 1-Dodecanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
N,N-dimethylmethanamine methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 70642-24-9  
CMF C21 H40 N . Br

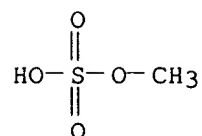


CM 2

CRN 56664-69-8  
CMF C3 H9 N . C H4 O4 S

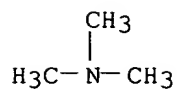
CM 3

CRN 75-93-4  
CMF C H4 O4 S



CM 4

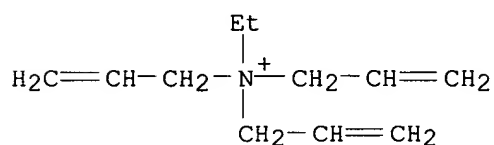
CRN 75-50-3  
CMF C3 H9 N



RN 70678-38-5 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, bromide, polymer with  
 1-dodecene and N-ethyl-N,N-di-2-propenyl-2-propen-1-aminium bromide (9CI)  
 (CA INDEX NAME)

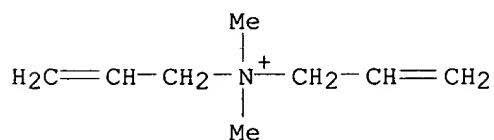
CM 1

CRN 70642-26-1  
 CMF C11 H20 N . Br



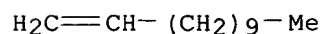
CM 2

CRN 14764-64-8  
 CMF C8 H16 N . Br



CM 3

CRN 112-41-4  
 CMF C12 H24



RN 70678-39-6 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, bromide, polymer with  
 N-(1,1-dimethylethyl)-2-propenamide, N-methyl-N,N-di-2-propenyl-2-propen-1-

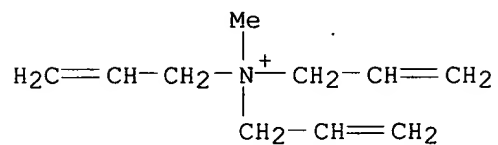


aminium bromide and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7

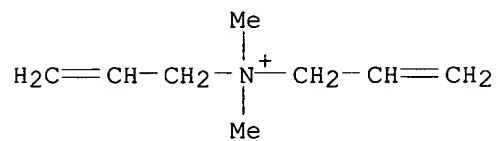
CMF C10 H18 N . Br



CM 2

CRN 14764-64-8

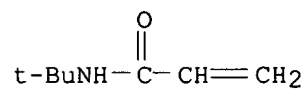
CMF C8 H16 N . Br



CM 3

CRN 107-58-4

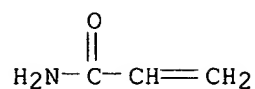
CMF C7 H13 N O



CM 4

CRN 79-06-1

CMF C3 H5 N O



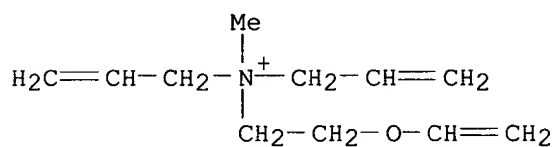
RN 70796-46-2 HCAPLUS

CN 2-Propen-1-aminium, N-[2-(ethenyloxy)ethyl]-N-methyl-N-2-propenyl-,  
bromide, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 70642-16-9

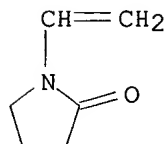
CMF C11 H20 N O . Br



CM 2

CRN 88-12-0

CMF C6 H9 N O



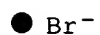
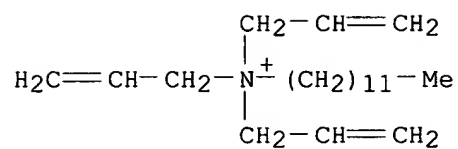
RN 70796-47-3 HCAPLUS

CN 1-Dodecanaminium, N,N,N-tri-2-propenyl-, bromide, polymer with  
2-(dimethylamino)ethyl 2-methyl-2-propenoate and 1-ethenyl-2-pyrrolidinone  
(9CI) (CA INDEX NAME)

CM 1

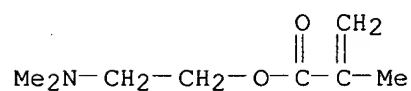
CRN 70642-24-9

CMF C21 H40 N . Br



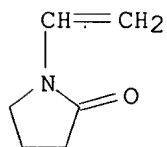
CM 2

CRN 2867-47-2  
CMF C8 H15 N O2



CM 3

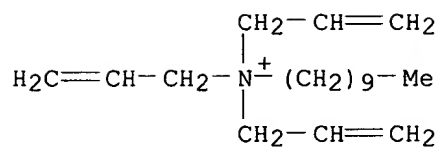
CRN 88-12-0  
CMF C6 H9 N O



RN 70803-35-9 HCAPLUS  
CN 1-Decanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
2-(dimethylamino)ethyl 2-methyl-2-propenoate and N,N,N-tri-2-propenyl-1-  
decanaminium bromide (9CI) (CA INDEX NAME)

CM 1

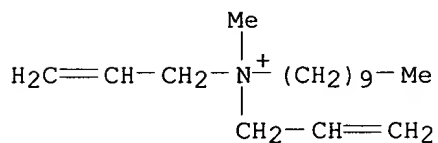
CRN 70642-22-7  
CMF C19 H36 N . Br

● Br<sup>-</sup>

CM 2

CRN 69419-77-8

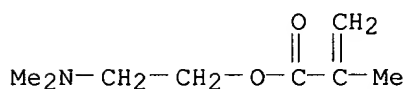
CMF C17 H34 N . Br

● Br<sup>-</sup>

CM 3

CRN 2867-47-2

CMF C8 H15 N O2



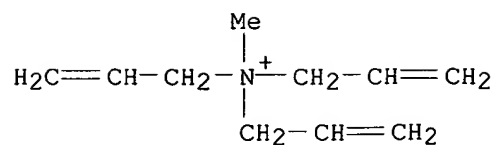
RN 70803-36-0 HCAPLUS

CN 2-Propen-1-aminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with  
1-ethenyl-2-pyrrolidinone and N-ethyl-N-2-propenyl-2-propen-1-amine  
hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 70642-14-7

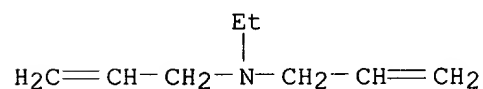
CMF C10 H18 N . Br



CM 2

CRN 13107-02-3

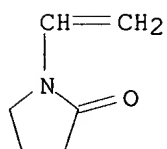
CMF C8 H15 N . Cl H



CM 3

CRN 88-12-0

CMF C6 H9 N O



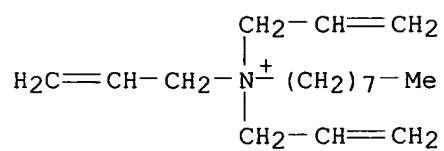
RN 70943-94-1 HCAPLUS

CN 1-Octanaminium, N-methyl-N,N-di-2-propenyl-, bromide, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and N,N,N-tri-2-propenyl-1-octanaminium bromide (9CI) (CA INDEX NAME)

CM 1

CRN 70642-20-5

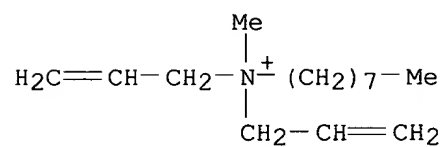
CMF C17 H32 N . Br



CM 2

CRN 69419-86-9

CMF C15 H30 N . Br



CM 3

CRN 2867-47-2

CMF C8 H15 N O2

